

GENERAL ORDERS, No. 11.

HEADQUARTERS OF THE ARMY, ADJUTANT GENERAL'S OFFICE, Washington, February 7, 1885.

1..The 3d Regiment of Cavalry (except the troop stationed at Fort Leavenworth, Kansas) and the 10th Regiment of Cavalry will exchange stations, the movement to commence not later than April 1, 1885. The exchange will be made by marching.

II.. The commanding generals Divisions of the Pacific and the Missouri will assign the respective regiments coming to their commands to stations as soon as practicable after the receipt of this order.

III..The columns during the movement will be provided with necessary supplies at convenient stations on the contiguous railroads.

IV..As far as practicable, all regimental, troop, and the authorized allowance of officers' baggage will be shipped by rail from initial points to the new stations of the different detachments of each regiment.

V. Further details will be arranged by the commanding generals Divisions of the Missouri and the Pacific, due regard being paid to economy by requiring, as far as practicable, the simultaneous arrival of columns at such points as they may designate for the exchange of wagon transportation.

BY COMMAND OF LIEUTENANT GENERAL SHERIDAN:

R. C. DRUM,

Adjutant General.

OFFICIAL:

Assistant Adjutant General.

FORM No. 202	War Department, Signal Service, U. S. Army.	(TELEGRAM.)
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HEADQUARTERS DEPARTMENT OF ARIZONA,

Whipple Barracks, Prescott, March 11, 1885.

Special Orders) No. 25.

(Extract.)

1. In compliance with Division General Orders No. 4, current series, the 3d Cavalry, except as therein prescribed, will march to Bowie Station, A. T., leaving their present stations in time to reach that point not later than the 13th proximo, and thence to Deming, N. M., as directed by said order. The troops at Forts Apache, San Carlos, Thomas and Grant will unite, in the order of posts named.

Regimental, troop and officers' baggage will be shipped as directed in paragraph 43 General Orders No. 11, current series, Headquarters of the Army. Supplies will be furnished from this Department to Deming, and for the 10th Cavalry, from that point to stations as assigned.

The Chiefs of the Quartermaster's and Subsistence Departments will provide necessary supplies for the troops at convenient points contiguous to the line of march between the posts in this Department and Deming, N. M.—Posts will supply transportation as follows, to be assigned to service by the Chief Quartermaster:

Whipple Depôt.—4 six-mule teams.—1 ambulance.

Fort Verde.—1 six-mule team.

Fort Apache.—2 six-unile teams.—1 ambulance.

Fort Thomas.—4 six-mule teams.—1 ambulance.

San Carlos.—1 six-mule team.

Fort Grant.—7 six-mule teams.—1 ambulance.

Fort Bowie.—2 six-mule teams.

Fort Huselmea.—3 six-unde teams.

2. Captain C. W. Williams, assistant quartermaster, will proceed to Bowie Station, prior to the arrival there of the 3d Cavalry, and thence to Deming, N. M., for the purpose, under instructions of the Chief Quartermaster and Commissary, of superintending the transportation and supply of the troops from and to their posts. Upon completion of these duties Captain Williams will rejoin his station.

The journeys as directed are necessary for the public service.

Dr Mearus. 3

3. The Quartermaster's Department will furnish the necessary wagon and rail transportation, vià Ash Fork to Fort Davis, Texas, to the Colonel, Adjutant, non-commissioned staff and band of the 3d Cavalry.

4. Assistant Surgeon E. A. Mearns, U. S. Army, will report to Lientenant Colonel D. R. Clendenin, 3d Cavalry, to accompany the regiment as medical officer in charge, and will return with the 10th Cavalry, to his station—Fort Verde.

Acting Assistant Surgeon G. E. Andrews, U. S. Army, will report to the Commanding Officer Fort Thomas, to accompany the troops from Forts Apache, Thomas and Grant to Bowie Station, thence with the regiment to Demmg and return with the troops of the 10th Cavalry assigned to Forts Grant, Thomas and Apache, from which last named point he will rejoin his station—Fort Huachnea.

The journeys of Acting Assistant Surgeon Andrews as directed are necessary for the public service.

Acting Assistant Surgeon S. F. Weiriek, U. S. Army, will accompany Troop A, 3d Cavalry, upon its departure from Fort Apache to Fort Thomas, reporting upon arrival to the commanding officer for temporary duty at that post.

The Quartermaster's Department will furnish the necessary transportation.

5. Private C. W. Hunsaker, Troop C, 3d Cavalry (hospital steward of the 3d class), on being relieved at Fort Lowell, will proceed to Fort Thomas and report to the commanding officer for duty in the same capacity with troops of his regiment under orders to proceed to Texas.

Private *Peter Werner*, Company E, 1st Infantry (hospital steward of the 3d class), will accompany the 3d Cavalry in that capacity to Denning, N. M., and return with the 10th Cavalry to his station —Whipple Barracks.

The Quartermaster's Department will furnish the necessary transportation.

By Order of Beigadier General Crook:

Assistant Adjutant General,

A Journal of a Journey From Fort Unde, To Deming, New Mexicos Arzona, and Peturing, Performed on Heorseback: Destance about 912 miles, Leaving Fort Verde on March 25th, 1885. and returning May 20th, 1885.

By Edgar A. Mearns, 1st Light. and Assit Serrycon, U. S. a., Mudicial Officer in Change of the 3rd and 10th. Regiments of U.S. Cavalry exchanging Stationis between the Departments of arryona and Lixas.

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Melystae costae.

Aquathria at Hillett, a. J.

Calyptae costae.

Bumbleber, a. J.

Activia virens Congicanda.

Agna Tria at Settlyig's Ranolylis. 3/5/520 4053 20. 4.5 7 22 91 115 18 40547al. 92 114 4055 Siw. - 27 22 6 11 20 202263 18 18.6 6 one of the 4156 las. 11.5 Its nest was built in white shing cache on the the sound plant to washing the flow to and nather conspicuous in flew from nest 105.

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The Devek

Butto borrule calirus 46/2 4064 Fad " 560 183 320 600 nest with 4065 Ead." Stomad, auth young of year Still in its whatil. Barely able to ply a lettle 4066 Friw-11 ash leruk, a.J. Stomache contamed hair of small manina in west in a Two of 4 young taken fro grant chety on May 466 7 Phint " Preacho Station, a.J. attat alier till now. 4069 Dains " Preacho Station and Kell Frochilus alexandri Mountani Efring a Titondes Frides, hazel Bell, Famis Indovedanis) excubitondes Frides, hazel Bell, Famis Indovedanis Mew Mexico, and dawl, black. lega, fret 28 23 6 18 12.5 26 320 100 107 4070 Fac April 2.2. Colaptes Aprisoides. This Buy Coler, a. J. (No.4064) young with & framew consected on the trip, 236.

2/6.	Ser and	1385.	Locality and Name.	· lanurhu.	Total Court	they and	3	Ear Fi	Say 2	Geofunt of	Haise of Haise	" " " aread	020	Hore Cog	from leg	Caralon	Lar alor	Solmes Sur	K. Brend
169. 170. 177. 173. 173. 173. 173. 174. 175. 175. 177.	00 ad	7:1a2. 27 . 28 	Vin Heali's Ranchier Inv Ruir, 1.1. Vin Heali's Ranchier Inv Ruir, 1.1. Vir mother I vir and in my ind Of what Now I war and i wan. Deformed hales Test candus. Lit I'm they and Descri Blacon is. Jamas harris. Jamas harris. Jest i'm hely and Descri Helien I'd. Jamas harris. Jest i'm hely and Descri Helien I'd. Jest i'm hely and Descri Helien I'd. Jest i'm hely and Descri Helien I'd.	Belief girli, 170. Belief girli, 175. manuna wel developed. Belles girli, 175. Manunue well developed. Belles girli, 175.	375 375 257 257 257 392 382 400 390 410 412 375	160 166 155 147 160 552 276 283 296 306 306 273	16 17 17 15 30 32 31 32 32 32 32 32 32 32 32 32 32 32 32 32	56 60 59 60 57 59 56 59 60 63	38 39 38 44 37 38 44 37 38 47 37 66 72 66	443 43 42 44 428 73 74 77 76 8	74 98 75 90 77 90 77 90 77 90 77 90 88 10 88 10 88 10 88 10 77 90 77 90 77 90 77 90 77 90 77 90	3 3 3 3 3 3 3 3 3 3 3 5 3 3 4 3 5 8 5 6 6 6 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	38 34 140 62 60 60 58 67 62 58	47 48 46 49 215 94 90 91 95 95 92 85	64 119 115 118 119 121 121 121 114 110	8.6767655	7.507-1512141311.5	/	10.
3 184 186 186 187 188 189 191 191 193 194 194	0-20-01-01-01-01-01-01-01-01-01-01-01-01-01	May 3 8 12 16	Signal Sativancia ansonato. Sordsburg New Milisieo. Engnonius Lumbianu. Stagoon Summit a J. Jul. Selus callotis Callotis. Riluto Luho Callotis Callotis. Red Rock a J. Between Mancohagud Lila, a.J. New Kvar, a.J. Sfermophius Tereticandul.	Ears, width, 75. Ears, width, 38. i of Cynomys arizonensis Mearns. Ears, width, 95. Lepus alleni Ears, width, 90. Theams. Vulper macrotis merriam. Mys phillipsis ordi. Dipodomys merriami Mearns.	350 375 385 390 580 340 390 660 775	272 277 281 283 470 270 280 525 525 445	30 31 31 55 38 32 66 68 51	57 57 58 57 57	68 71 70 71 70 70 70 70 70 70 70 70 70 70 70 70 70	69 72 77 77 126 726 126 126 1	58 78 80 98 83 10 82 10 70 11 48 77 75 10 270 33	43 46 2 45 7 68 9 68 9 68 9 75 9 75	55 62 58 130 87 62 140 133 114	83 92 95 85 180 98 95 230 170 31	1.18 1.15 1.06 2.58 1.60 1.18 290 270 192 73	5 168 8.5 195 190 82	13		186 170 200 170 250 350 345 72 95
34 228	2.00 .	Winters 1884- 1884- 7 July 15	Squar Peak, a. J. Surinophieur Terationadur Deart Well, 20m. Not Phoenis, resumming	Mas horsoned near Hance's Ranche. It killed a young cow. A minter's skin presented to me by Mi Goy Hance. Show measurements Tuken.															

The state of the s



Date /. Masuriments. 1875 Tum. 25 49 × 60; 48 × 59; 49 × 60. Their ground-color cabinet. No I. has district smeary blotches of Vandylie-brown, end, but sparsely scallen distributed over the whole egg indistinct and granular, interspersed with paler dots and are most numerous towards the smaller end. Theseggs are Dightly weather-standed, and contained rounded oval shape, considerably more pointed at one and to fale pupilish-brown, the paler markers not overland bis stiell down a little rocky rapine, I shot a female Red-tailed Hawk sijon her whom ther there eggs when I chined to the mest. They were them safely in to camp on ash tereck. The next was bank and goern twoigs of piñon. Whow the margin det the Desert Fleare Lepus enfinations arisonal). The male seen hovering over the spot. Hight of next 35 quet. March 3/2 a, 20 X 27; b, 19 X 27.5. Oval in Shape, much smaller spotted with amall wrighter bloteties of light yellowich-brown and grass, with a few feathers of Sambel's Quail. March 3/5/4/7.5 X 24; 6,18 X 25; c, 18 X 25; d, 18 X 25; E, 18 X 24.6. buffy salmon-color, indistructly freekled all over with · priroe-shaped horizontal structure, firmly fastened Externally composed of bright reddish bleves of a plant of Scottil Oriole, Quaid, Road-runner and its own & feeles. the farent dropped to the ground close to the ground and alighting at its base, hopping its pientiar voice. March 3/5 a, 17×25; b, 17×26; C, 18×26; d, -x-(broken). maining there contained large embryos and were dried. The all over with brownich-red and pale lilae, the spots end. West pridistinguishable from those of the Caetus Worker. March 31st a, 17 x 25.5; b, 17 x 25.5; C, 175 x 255; d, 18 x 26.6. golor buff, white; I other all over but chiefly in a circle of like their mests in which this and the above to the large spine, decidences cache po couste or seem to see a good determined to see a seem to see a so of determined to see a good determined to see a seem to seem to see a seem to see a seem to see a seem to see a seem to seem to see a seem to seem to see a seem to see a seem to seem to seem to see a seem to seem to seem to seem to see a seem to seem the large spine, decidnous cache cholla as closely resulte some aggs of deteria

Sate 1885. Masuremente and Remarks. Name, Locality Upr. 3rd a, 19 X29. Ofinish. Shap, an elongated oval, nather Harrompehus redivivus lecontei Red Rock Station, a. J. deeper in color than H. paimeri, sparingly shotted all printed. Fround-color, gruenish-blue, Lurgest at the great and, where they tend to accumuover with brown and lavender, the shots -lute and forma weath near that extremity. The next was built in a cholla The parents were not secured, nor seen in the Cartus Seven Leet from the ground. leanlylothyneins brumicapillus. hear Red Rock, Ungera Up. 3 1/7.5 X24; b, 17 1, 24; c, 17 X24; d, 17 X23.5. Eggs feel. cribed, except that the purplish-gray Spotting forms an Shape and warkings like those already des greater end. Nest built in a meaquite 20 feet fr. grow. indistinct circle or wreath about tohe 1+3your O. apr. 3rd a, 18 x 23. Egg, addled. More obtusely oval than those, the gran, spotting predominating, giving the egg are unusuale Campy lorhymehus brumeicapellus, the Oscacho, anzion described, fround color buffy salmon-color in the nest, two of which No. 3881 Spir. + 38829 juir) were hale color we half-grown young were in a "cholla" caeturs & fut from the ground... preserved with the addled egg heat built 0 3884 fad. Hearportundend einerens brudirei mear Rellito Station, A. J. Mpr. 4th. 20x26; 20x27; 19x27; 19x26. Eggs meanly ready to Chold eaches 4 fut above the ground. Eggs destroyed hatch. next built in the midst of a done Up. 4 = 2,19 x 25; 6, 18.5 X25:5; C, 19X26; d, 19X26. Eggs, Hearportynchus emereus bruduri near Ked Rock, arizona. color greenist-gray, bloteted allover with very fale forst. Stape, oral, rather provided. From mesquite-bush, a feet above the ground. lavender and yellowish brown. Built in a Mr. 4th 24 X 32. This egg is pure white, immaculation Lophortya gambeli. Red Kock aryona, Hopert our cook. Shape obovate. that we shot a for food, and given to me by Portate Upril 54/8×26; 6, 18×36. These eggs are unusually lage, Leaning lorly aclin brunnicafullus. Incson, Urizona giving a dersky or neutral color to the egg. Next ni rather clongated oval and posited. From and hurplish - gray, Ath latter color a lange "Cholla" cactus, 2 feet from Upril 5th 20 X 28.6. Next built in a cholla cactus, Egyful and evenly sprutice spotted all over with boom and Carporhynelus curvirostris falmeri. Fort Towell, arzona Ess, oval, ground color, granuch-blue, frind. april74. 21×28; b, 21×29. Next built in a 'Sholla" Hearporhynelus eurorostris palineri. hear Fort Forvell, a. J Must described above . T). Caetus, 6 feet above the ground. Eggs like 3901, End Polioptila melamira. Between 7t. Lowell Mith & cepritte The next contained frier young a day or two old. (a) × 3901, oad It measures: External depth, 85; external breadth, 65; internal defth, 35; internal breadth, 30 , delete sheeds of plant from, mixed with wook pertities Nest delicately worm of fine strips of goo bank down of a composite wered growing abundantly in of feart down, lived theckly with cotton merory note, and seolded vilewently while i examed the orgion. He hareut settered a cot-like

Date Forality. Clame. 1880. Cam infortigueling brunciea filler Set. Ft. Lowell & Mitis Spring a. 3 ggs, fresh, shape and colore like those Villainopepla niteris. mas 4t. Joursel anyone Soft parents were shot but spoiled bare tui fork of a black ash bisside a dry arrayo The eggs in slape and an elongated oval grapish-white, strongly marked, chiefly at bilt (zone) of pale slaty-lilae bloteties near as some of highter brown, seathered over the gutere shell - 3902, Far Hortyx gambeli. Between Fit. Lowell & Min. Shi 1,24; 31;9,24×3/5; h,24.4×32; i,24.6 tapering to the small find. The ground-color, spicked dolle , in to she all over some of the spots opaque begause overlais shell covering them. He simule was blu at the root of a small back in the bank return, elucking and I colding to where à Coliftila melamra. San Znion, anjour Eggo, comewhat incubated, oval mi shap, hav reddish-brown spot, tending to form a ordrat smothly chiefly around near external brandth, 70. Internal depth, 35; of plants, between of book, and pledgets of silky the Gods of a small, prostrate adepis Little contracted at the from Built in the about 2 feet above the ground. The shrub is the Carpodaeus frontalis. Stein's Paso, New Mexico 5-4 0 blue, with a few spots and minute afreks Toloptila melanura. near Tordsburg, M. Mux 3 feet from the ground. Materials thepama contains more feathers and collony down felted, considerably contracted at the measurement in bight, 50; outside breaks. Sturnella reglecta. ver Lage, New Musici of them have a clear white ground, while

Milasuremente and Kemarkis. Upil 7 4 4.5 × 24; 6, 17.5 × 24.6; e, 17.5 × 25; d, 17×24.5; e, 18×24 described above. Nest built in a poloverde 10 feet high Writt a, 16 x 24; b, 16 x 23. Contained small subryoz was found to skin them the nest was built in a , and was like those taken at Fort Verde, arriona rather pointed at the smaler end. Found-color the greater and with dark purplish-brown, with a broad that extremity, a few spots of the same color, as well Quit a, 24.6x82; 6, 24x30; e, 24x31; d, 26x31,572,24x33; X326, 7,24×32; K, 24×32. Hese iggs an obovate, color is pale buff, tinged in one or two with salmonwith dark choso it bio ... varing to a dark rich chestrus, by spell, but coming out brighty whom scaping ceway the of and shallow arrayo, and was to how upon her was plowing the eff. apr. 1314 a, 11×14; 6, 11.5-×14.5; e, 11×14; d, 4==×11×14.2. y a ground -color of grown. his, freekled all over with wreath about the great end, together with pale lilae The larger and the next measures in external depth, 70; Goradter, 35. Freely and delicately felted of frue stems plant Sibre, softly lined within with the dilky from Together with habbeit hair and a few feathers. What a thorny evergnen-basked "greasewood" as I used to call it. Korrinta Quecarini. Hu. 14 15 x21. Thet built in a redar. From - color, light of dark schaa brown at the great end. Mpi. 15th. Nest grist finished. (Smilt in the fork of a greaswood above except that it lacks the hair and asclepies, and from the steens of some weeds. It is well and firmly 65 Inside depth 38; breadle, 28. Up. 18 12 2 (x 28:521 x 27; 520 x 27, Verfeetty fresh. Loo the 3rd ("c") has a grunish trut. all are spotted,

Name. Muasurements and a Remartes. Locality. 1885 Me female was flushed from per mest, at the great and with reddish brown and grasses, placed whom the growing close beneath which was artistically roused with dr 4/1/ A 12. 0 tod of golde-poppies with orange centres. duft of the short gramma forthills of the behincahina lealle fella Squawata. mountains hear Bowie Sta, 11.2 Up.30= 24×32; 24.5×32.6; 24×31.5; 24×32; 24×31.5; 24×32.7; 24.5×33.2; 24×32 Eggs mearly fresh. 24×31; 23.5×31; 24×30; 24×32; in form obovate, or rounded at one taper spotted all over with yellowith boown, "Wwhile ascending creamy white finely and unformly. the foot-hill,; about fifty yards from a strong the grassy slope, still about a mile from Jungle "White-top" Levail, sitting whom her twelve eggs arroys, I almost trodupon a cette grass, perfectly areulars linight feathers of its own The hest was in the centre of a trift of and close beside a cactus, () braring, handsome shelles, surround by yellow prophies; red flowers. I followed the harent to the amorjo, and got within a few feet of the but when she got nearly ant of vonge and then glew away, ran so swiftly and hid so cleverly that 3 0 3960 Ea Campyforhynchus founde capillus Mets., neur Bours St. a. april30th 18 x 24; 17 x 24; 17.5 x 24.5. Eggs, fresh; like theore in a poloverde, seven feet from the ground, very grasses and red plant stems, lined Muckly with described already. The west was built bulky, composed orderarde, of handson with species of Quail (Tophortyk gambeli and Callipepla. geathers, among which were those of and Mourning Jove. squamata, Scott; Diol, Road-runner (May 3rd 17 X 24, Glong ated oval. Fromd-color, for Lyrannis (voeiferand!) Dragoon Summit, a. J blotteled with "chestnut and pale grayish-lilae. He creamy white, sparingly but boldhe the fird seen near, the nest was undoubtedly I. identification, was not positive, although with Dr. Brawer 10 description. The nest was built in a black walnut (Juglans migha / 3) feet from the ground and contained a sugle frack of shall Twig's und grass, stems of plants felted neathy egg. The next is rather bulky, compose cottony, lomenton sterns of a yellow composite are close, roft leving, to which are added a few feathers and some robbit-hairs. logether into a compact structure measury defeth, 30; ruternal width, 90. Many interwoon in its structure, and helf to form a May 3nd 17 x 24.5. Egg, oval, obtuse at the small end, 1+ 2 you. Ispilo Jesseus mesoleneus Dragoon Semmit a. J faint blinish cast," with a few bold dashes and signer Fromd eolor, creamy-white, with a very lines of dark, purplish-brown chiefly ar of faint lavener- also aggregated at the great end, and, marking, and numerous blotches a grape-vine, sight feet from the ground. It contained The nest was. This nest was built in Katter I preserved. The nest was bulky, composed two young and an addled egg, which and grassis, together with ribbon-like streets Thisk from the grafe-vice. The parents flus

Measurements and Remarks. Locality. Vame. May 7th 18.5- X 25; 18.5 X 26. Eggs, frest; ground-color, light Harfood. cinereus bruderei Host Joverell, aryona hale yellowish - brown and Lavender. The next was built (slightly greenish) group, mottled allower with braide the Danta Billito Creek. The finale parent was shot, in a grape-vine overhanging a small tree 5-20 Manj 7th 19x24; 19x24; 18.5 × 24. Cogg, rounded oval, Tanns ludoviciame excubitoride. Lucson, Unizona Aringe of gram, blotteted with pale umber #brown, purpling ground-color, buffy-white without any. of the markings differs in the there eggs. In one they brown and Islac. The arrangement egg, in an other the darker bloteties form a distinct are fretty evenly distributed over the whole Third there is an equally distinct your around the circle around the great and, while in tot will of sticks lined with grass, wreds and feathers small end. The mest was coursely roadside. The eggs contained large embryos. Her female built in a dense mesquite, close to the nearly captured by hand. I sott brids were fierce Lat closely when her nest, and was in defending their profess and cried May 1 17 x 21; # x 22; #x 22; 17 x 21. Qual mi shake Mysarchus emeras ens Jueson arzona with purplish-brow and lavender both colors Ground color, buff, uniformly marked or less blending in places. The nest was built at the laid on in longitudinal dasher and more close to the ground. nest composed of hair and feathers. vost of a hollow stupped, ofen above, and I found time to Skin them. Both brids were alut but decayed before May 8th 10.5 X14; 11X14. Qual in shape, having a 5=3 X 3994, Fad. Volioptila melanura. Ked Nock, aryona boon spota, tending to form a wreath around the great granush - olu ground, findled all over with reddess near the great end. The spots are a tiple smaller Man those of Let is and the eggs an also appreciably less in size. The nest was placed above the ground. It is gray air color, composed of in the fork of a greasewood five feet plant stems, frie projetale felaments and a few fine material including fine shreds of bash delicate rebbons of & bank forming the bull of the structure Measurements, External depths 80 ; esternal breadth, 60 ; internal depth, 45; breadth, 35. B 0 4010,200. Harportynelius reduirvus lecontei. Water, anjon. may 11th 2/9×29 :620×28.5; C/9×29. Shape an elongated oval of bring rather sounded and obtains as in the falmeri latering to an point at the smallend justion duper than H. falmeri. "a" has large blottetus of fate Ground-color, greenist blue, somewhat scattered over the rigg, a few extending meanly to the yllowish-brown and lawreder spannigh the same colors, but reduced to fine spots quite numsmall extremity, in byth marks and but scarcely extending to the offosite extremity at all. ous and confluent near the great and, whom a for and receiving additional support from Hu nest was built in a mesquite restry fut abour the ground, composed of fine grasses and sticke loosely placed and fined grass and a few are shot directly from the next. a neighboring branch. It was about of words restrict whom a mass of large beathers. Both parents ward secured

Fleasurements and Kemarks. May 12th 18.5-X24.5- X 18X24; 18.5 X24; 18 X23; 18 X24.5. Januis ludov. exembitordes Mansopa, (lingoun Enjed with greenist of the colored constitues blending to the offerst extremty aval. From - color cream - white, reasery great end with yellowish and purplish to four feet from the grown? Composed externally of The nest built in a nesquite and fine pools and a few feathers sheko, internale. La weed dalla, grass May 13th 18.5 x 24.5; 19x26; 19x25; 18.5 x 25-6. The nest was built in an arrowwood about 4 feet from the ground, composed chiefly of Ht. eggs are oval, having a ground-color of rebbons of muer back of the cottomina water ind with a few bold shots, and many likes hale blue, each egg manked at the dots and dashes of dark, brown, appear perfectly black except in a strong light, and a few I waller dark spots are scattered born the whole eff shots of fale lavender. a few of the wrath of delicate lines and ofota around the greatend. except the little and. One egg has a May 13th 22x29. Shape, alloy, rearly equally sounded 7 0 4022 gad. Milopelia Cencoptera Salt River at Mornix, augin West composed of stacks and storm of plants, transferry at both endo, Perre white, immaculate a blanting willow among the closely growing branchlets and france in structure, built when May 145/8X27; 18.5-X25.5-; 19X27; 18X24. Phope the same as the set described above , but with a few markings of brownist red. The dask-brown the great and. They are less spotted than the other set. west's are fewer and almost restricted to in a dense mesquite grove in the edge of town Height 15 feet Vest built in the dock of a mesquite May 14th 18.5 x 26. Kather oblong and obtuse at the small Tipelo aberti. Ikrosniz, Urizona about the great end with blackesh-brown, and a few end. Fround-color, light blue, marked are no lavender spots. The next was built in a small reddist-brown fapoto; but l'on. feet above the ground. cottonwood bedge by the roaderde, ten May 14th 19 x 23.6; 18.5x 25; 19 x 26; 18.5 x 25, 6992 Milo aberti. Mornix, anzona. pale blue, marked at the greater end with black and fresh. aval, rather obtuse. Fround-color, dots and dasher. There are no lavender spots. The nest was resting whom a few and ribbons of bank of the collowood Strong turgs, and composed, as usual of wreds the nest was built in a collowood hedge much the road. May 15th 20x26; 20x27; 20x27. Oval in Shape; 3. 0 4046, Ed. Harport curviostris palmen near Hall's on New Years, a.J. evenly spotted all over with yellowish-brown and pole ground color, greenish - blue, quely and very large, brult in a cholla "cactus, and so Lavender Clo usual the most was decederans ofmics that I experienced considerable Shielded by the Vorstling font of to reach the eggs. The viner cavity was build inbanasament in attemption and althe some frie roots. Rastefully with reddish weed stall,

Late Measurements and Remarks. Maine. Locality. 1885. May 15th Newly finished next, built in fork of a mesquite; X 40 40, 60d. Polioptila melanura. Near Hall's Ranch, New A. of back united by fine silky fibres, lived with the of a gray color, composed of fine shreds - 1 bit four and some white horse-hair from more or tail. cattony product of the gottonwood, rat i sitemal depth, 45; intervial breadth, 37 mm. hught externally, 80; foralte externall, 60 May 1624.5 1.51.5. A single egg found whom the grown Tophortyx gambeli Swilling's, on Aque Fria May 16th 43 x 55. Egg rounded oval, slightly smaller 4047, Far. Dosouls, pointed at the amall end, Spot-0 4048 2 ad Lantio abbreviatus. New River, auzona. - magulate. The Mir was so attractive that I could at one end. Clear blush-white, in In a large grove of tall cottonwoods , I deard the not resist the temptation to follow it came towards me again, when I shot it. aftern Sharp whistle of this Hawk, and a screamed, loudly. It wheeled and Thereabouts, I walked a little further uf stream and looking for its west in the trees nest in a cottonwood near the appointe side With a loud whiste she flew directly towards me, and was also shot. of vather large sticks, with considerable con-The next was coarsely leuit -wood leabers only, and placed in the fork of a cavity, lived with a few cotton Cottonwood 25 feet above the ground. May 16 2 22 x 31; 22.5 x 32. Shape oblong-oval, noticably 2 0 4053, bad Melopelia lencoptera New Krier, arigona built whom an obligue willow trutk among som smaller at one end. The nest was composed of sticks lived with some grass. Her eggs franchless was frail in structure, bird sat closely upon the eggs until driven off and shot. were mimaculate white. He male May 16th 19 127; 19x27; 19x27; 19x27 bill timjed with fleely and, Gound-color, greening-white, dashed all over the blotches becoming confluent in one egg over the 2 × 4049, Ead. Cardinalis orig. igneus. Gelett on the agua Hair A.J. elongated oval, obtice got fle smaller with set umber-brown and partials lay the roadside, conspicuously placed in the fork of a entire but. The next was built close 6 feet above the ground. Both parent came about, the tall arrowwood (Jessaria borealis), about evenery much angen but withal satter stay and nest uttering a sharp neltallie call-note both could have been secured had I not run out of secretive. Their erests were erest, and quantity of plant-sterns and ribbon like pieces of fack ammunition. The next is composed of and grass, the unide bring smoothly lined deeply lined with small roots and and depth, 120; external breadth, 135; internal depth, saucer chafed, measuring in external narrow canon several hundred yards from the stream. 60; internal bradth, 70. Locality, a May 17th a. 45 × 63; b. 43×61. Eggs oval, considerably end from decolor, white, wrather stains in stots. 2 0 4050, gad. Quito abbreviatus. agua Fina near Swillijs fronted at the schallered at one from state specke, and a few pater brown and lavinder the all of the marks most numerous at the layers that "a" is finely sprinkled with dark sefria
Thota having a smeary, granular appearance.

Nest & Nos. Measurements and Kemanko. Joeality. Date Name yellowian-rown and lavender. Theeges cortained to is evenly blotched with very hale their contents with great difficulty. The female large embryor and were emplied of I intered the woods and was shot. The woods flow screaming towards me when Livellings and the cottonwoods in the level bottom fria flows through a canon below form a large grove, of undenally six . I searched a long time for the nest which I finally to the place where I shot the old bird. The male discovered in a tall collowood clou range frefore I could obtain a shot, and did Sat whom the eggs, but flow out of 12 treling over the canon a few times, and although not return but disappeared after The next was rached with infinite exertion I waited several hours did not return - co fored of streks, lived only with a few and was exactly like the first one to the trongs. He nest was vather concave green leaves of sollowood attached differ in size shape and markings from that and contained the two egg, which any doubt about the identification, for the I parent first found; but there can bearely be atter bird was distinctly seen when flying from the was shot close to the west, while It ben, On the other hand the identification of the nest, and was black, with white toil first nest was absolute. The Semale was seen whom the mest; she arose and flow straight the got and when Her mate was also procured. towards me and was abot the May 17th 23×32; 23×31. Oval in Shape, oblisely 2 8 4058, fad Melopelia Sencoptera Black Canon wear Benublika verde directly over the roadside in a conspicuous pointed at the small end, fure built in a green-barked acacia or polo and did not leave until d'allemped to catch her position. Hee funde and whom the rest May up the hillside and began too evo ("cook-ove with my hand, when she flew a lette B 4051.9 ad. Cardinalis inginiami i guens Ranche, armone is shown at the small end. From color; "May 17tha/7.5-X 24.5 ; 6/8 X25; e/8 X26. Elongaled oval, Hetrus bluish-white, plasted all over uniformly with tend to be clongated longitudually, "" is more conspicuously brown and Jurplish - lavender plashes, which purple masks, most numerous near the great end.
w trink len feet from the ground, of stems grasses
the set no. 3. The funde was flushed from the spotted with dark brown, rusty brown and The nest was built on an ablique with and strips of une back; shallower secured. The male was so shy that I could not seeme it. next acrowal times before she could to May 18th 21×29; 21×29. Eggs elongated oval, rather 互议0-Genaedura carolinensis, neur anteloge, angona late white. West built on a shelf of rockon a cliff. pointed at the small end. Immaen may 18th 18x 25,5; 19x25-; 19x24.5; 19x26. Ovord. 4 10 Minius poly glotters near Bumbleber, angoin all over with rusty boom and purple. West built I fround eolot, greenish blue, blotted ni a barberry, feet from the. ground.

() Hame Museurements 2 a Cen a i ... of ocality May 18 th 19x Q7. Stape, elongated onal, obtusily pointed Ma mus polyglottus near antelope, anzon and finely granulated with rusty-brown and purple Ground -color, gray, boldly blotetied end Nest in mesquite, 4 feet above yourd. the blottetus confluent near the great May 18th /7. 6 x 23.5; 17.6x23.5; 17.6x23.5; 17x24; 17.5x24.6. Campylodynehus trunneirafinear autetope, arijone -color, salmon-color, marked all over with dull red and Shope oval, fronted at the small and. From mesquite, 5 feet from the ground. pale purplish gran. Most built in a May 18th 21X29; 21X29; 21X29; 21X29; 21X29. Eggs absolutely A /solocoma woodhowei near Bumbleber, arigona marking. ablong oval in shape, with a greenistindistinguishable by sitter size or Shades of brown, and purple. The color are exactly - brids laken (Set No. 4) Same day "Os for excented -blue track ground, blotched with two matched by the out of four modern , were come to serut oaks and cedars, and I begante The sleep Milloude, after leaving Bumblet & minutes one was seen in a deep varie, amongst. look for Wordhouses Jay. In a few the next close beside the road, in a dense thicket of Ster verut oaks, where I poor found whence I could ecarelly drive her , and slepped off whom the ground in the thecket, and by threastie the bustes with a pole, The rest trootlets, The eggs, four in number were just was bruilt of coarse twigs, lived with hresewed by braking then in two " 1 0 4062, Fad bardinalis virginianus igneus Rigbing, arisona May 1914 19.5 x 27. Egg nather elongated oval; ground restor, and yellowish-brown, the spots confluent on the blush-white, shotted all over with furfu built among some drooping branches of a large was a next of generalization of was a deep, well-made willow stimp, whom to broken summet of wind Cottonwood true, buside Bigling Creek, about Camp. Sott parents were preserved. The vest was family nest; lost out of my on the way to it fartly rested. The vituation was so unusual that attached to the drooping twigs whom which I searched a long time before discovering Next externally of course streks, then a layer of cottonwood leaves, lined with roots May 19th 31×42; 31.5 ×42.6; 25×41. Shope oblory-oral 5-2 0 Leverleyx californiamis, Begling, anyona Jure White immaculate, chally, marked with furrous slightly simal at one end. Color and erosione. The nest was a flat! anever atructure, placed in the center of in isolated partly covered with rubbish - two of them were broken thicket of serub oak. The eggs were was built of stells pleaves and grass, with several in my 2 addle- pollets; Her most * longe dry pecces of cow manure admixed! May 19th 21 X 27; 21 X 29. oblong-oval, but slightly 20 Geraedura Carolinensis, ach Creek, arisona. was flushed from broncoth my horse's feet while smaller at one end. The found of Almba, socks or trus. The eggs were in a hollow enosting a grassy region, from. afanest whetever. Eggs, knomaculate nont. scraped in ground, with no pretuns with and 65 sets of Eggs, marking in all 186 eggs. 18 new Speces *The above nests and eggs comprise 26 apreces, represented by mine (9)

March 25 th 1885.

We less Fort Virde, Anzona, in a powring rain, but it soon cleared off, and the rice was pleasant. We marched 16 miles to Ash breek, upon which we encamped. The wagons moved slowly and did not reach camp until after dark, on account of muddy roads. The teams had to double up, and hull one wagon at a line. leaptain Russell's privale buggy broke down and was tied on behind one of the company wagons.

Our party at Starting consisted of leol. Celendenii, Sent and Mis. Russell, Dr. Kelendenin and myself, with "K" hoof of the 3rd.

The Doctor and I stopped at Hance's Roughe at the laienega and hunted for an hour. Hong the lever is a fine growth of deciduous oaks and a sumber of Lewis's Woodpeckers (Dundewing Torquatus), of which we shot several. While hunting Bambels Delails Tophortyx gambeli) in a rosery quich, I shot a female Red-tailed Hawk (Buteo borealis Calurus) sitting whon her nest in a tall pinon-tree (Penius duello). I climbed the tree, and look from the nest there eggs, nearly fresh, which I succeeded in carrying safely in to camp.

Sinde Penter were just beginning to show a Sew-green leaves, but a number of those in leopper leanon, together with several other trees, were in leaf. The sleason is manifestly earlier this year than on the pame day of last, when we first arrived at Verde; for many plants which have now in slower were just coming out of the ground last year. Among the flowers seen sie the canon were bunches of yellow violets (Viola mittallie),

enfillare, purile verbenas, andian punks, large yellow crueiderae, lange yellow umbeliferae, and low, white ones after it lest the canon. a pretty blue liliaccous plant resembling a leck or hyacuith was flowering productly.

Sweval Moelingbrids (Minus polygiothers) Were seen between cooper leanon and our camp in Ash leriek. They were afterward abundantly pesent nearly dironghout the march. I had Deen noue in the Jerde This year. The handsome little bolaci - Miroated Marroy 1. The everywhere abundant, and singing pleasants. When riding turough leopper leaving WE saw a Kaven (lebrous corax carnivonis) fly to its mest upon a legge in a crevice in the face of a high clis Koodhouses's Jays were exceedingly abundant; and Sais Flicatelier (Sayoonis sayi) were common. Briteo Forealis calurus (Mr. Westerno Red-tail). - The nest found (see note on opposite page) was built si a piñon, 30 feet above the ground. I saw the Semal Tharent leaving the nest. As she raised her thead "up over the edge of the nest I shot her with No.7 Shot, with which I was just going to kill some of Tambel's Quails, a large flock of which were running up the rocky gulet before me. The Hawk occovered from the Shock pretty soon and began to Slutter whom the nest, Smally Jalling to the ground. I then clinied the tree, not without trepidation on account of the elender to, which brut with my weight. The nest was bucky, composed of large twigs and brancher, hined with strips of cedar bank. It contained a cousid erable depression in which rested the Three eggs, which were afterward found to contain Amall embryos, which were, however, easily ransved, and the clutch brought safely home.

About Am nest, and whom it's edge, were several legs of the Cotton-tail Kabbit (Lepus sylvations arizonai). Large flocks of Maximilian's Nuterackers (Frymnoeitha cyandeephala) worsted in the Cedars In a high pidge near our camp. Me Wally, my striker, shot a northern Larbine It was a fundle, and contained 2. Loctuses. While breakfast was cooking, I found time to blow my Hawk's logge, the parent having been Skinned last night while waiting for the magons to comerin. Me left at the breek at 7.30 a. in., and marcher 36 mills to Bumble Bee. Detroven, Antelope and Bumble Bee were been the first Grant Caeti (Cereus granteres). He left Ash Creek when we broke camp, and fol-- lowed a trail over higher ground. On the grasses Slopes I shot a new bird, the Western Gellow-uruged Sparrow (Coturnellus passerinus perhalledus), which ran from beneath our horses' feet and varily attemped to side in the too short grass builten trail, when district and shot its. We were struck by its resem--blance not only in habits, but in color pattern, to some of the quails. Its back is quite like the Tyurison might by made with the common Quail the Old Woold (leoturnix - whence the general name although Dr. leones says (lebiek Lit N. am. Birds, 1882, f., 52) "Arbitrary diminutive of coturnix, a quail; said to be so called from the resemblance of the sound of its voice to the Sound of the word."). July one of these birds was seen. Deveral nicles Lather on WE came to Ash week again and ascirted it for a lette way, finding a bravilied grove of cottonwood in full foliage. Here I rocured a specimen of the diminities (Gellows headed

Lit, and found a number of Song Sparrows (Melospy Jasciata Galla) of the same peculiar characteristics as twore borrdings in the Verde Valley and Freat colorado Orver, which have not get been characterized and subspecifically named; therefore I continue to designate it as Melospija fasciata dellax [which it is]. halted for a noon rest in a grove of cottonwoods of restankably large size. We measured the larget with a take live your feet above the ground. It measures 34 feet his gertte, and has no exercicle or morbid growths at that part, the trunk. bring symmetrical and vather tall, although the branches are very long and drooping, nearly reaching to the ground. At this place dozens of Spatrow Hawks (drimmeulus Sparveruis) were rollicking in the tree-tops. They were doubtless mating Their loud cries reminded me af those of the Flicters -still more of the Idea Woodpeckers! A very vare North anerican bird, the Mexican VHack Hean't ("Mrubitinga anthraemia) was here Deen, but could not be shot. I hook the Lirst North america spiciniens that have yet been precured north of Mexico, on the Kio Verde last season. As we advanced, descending slowly, we found vegetation more and more advanced; but most of the flowers in bloom were such as occurat Vende a fur weeks later. Among them were umbeligera cruciferae, compositae, Indian pruks, cypress, orange - Colord poppises, francoses (white), and a franged Legume with sompound leaves like a small suesquite ("Forr-in-th-mist", Mrs. Russell said they resembled), and some large and handsome ligumes of the Jenus astragalus. Vear Antelope, we saw "H" Company marching ahead of us, lowords Bumble Bel, from Whipple.

Me reached Sumble Bee just at sundown. Several birds were shot which unfortunately could not Or skinned, I was too tired to sit up longer than to Okin my new bird, and the Yellow-headed Lit. The mammals seen were Coyotes, Rocky Mountain Frie-tailed & gurrels in socky canous, a few Hela lelipmente in rocky places, Harris's lehipment, Desert Heare, Northern Goeress Flan (a very young one was shot) which screamed loudly when caught, autetope, and a Mule Deer shot by a bandsman near antelope. The birds and mammals seen each day are shown in the table and reports sent to the Surgeon Several; but I will give some notes occurring passin in my field note-book, from time to time! Mountain Mockingbird - One shot abundant, Singing. Red-verted Thrasher. - a few sen; singing. Kuloy-crowned Kniglet - abundant on the agua Hria Yellow-headed Sit - Many nests seen ni haw bushes on the flats of mesquite, etc., along Ash lereek. Mite-belled Swallow-One flock or the Agua Fria. A few Rough-wriged Swallows, White rumped Strikes, House Finishes and Origon Snowbirds were seen. The Western Meadow Larks, Western Fraso Finiches, and Black-Miroaled Sharrows were singing At lealifornian leondor (Pseudogryphus californiams was seen Juding on a dead horse with donce Ravens, but could not be approached within pife Jange, although the Kavens were not shy. A Liw Ged Shafted tilickers | Leoloptes auralus mexican were seen. Some of them may have been leolapte Chrysoides (Mallyrbi's Hlicker). Mambelis Quail was everywhere commos Hu males calling their pad orollo from the tops of bushes on all sides. We always Kipt the mess abundantly supplied with them, as the Doctor seemed never to fore of shooting it them.

feolonel Bracket arrived at Bumble Bee an hour before we did, and took command. The Adjutant and Quarter Master Gruits. Stever and Harder) and leaptain Nessels and Funtint Rivers Marty "Frook, and the Mon. com. Staff and Bank were added to our party until the left Marcopa when the all proceeded to Bowie Station by vail, except the officer Capt. Nessels and Givet (Awirs) and brooks of "H" Co. of the 3rd who mached with use, comImanded by leaptain Russell all the way.

We left Bumble Bee at 6.30, marching 35 miles to Hall's Ranche on New River.

Leol. Bracket gave me permission to rich whead of the Column with Doctor Clendenii. The

whead of the Column with Doctor Cloudenie. The road Strong h (Black Leanon was much better than I anticipated, seorla's Kenning oud Caliptae costal) was found at the beginning of the Eg and soon became very abundant callhough flowers were quite agance. At the Loot of Whack Canon WE Sound the Leist Tela Woodpeckers, Centurus propygnalis) Vand Ceacties Morris (Campyfortynchus trunneicapilles Il hen we reached the Agua Fria, near Gillett, the Cape Saint Lucas Cardinals (Cardinalis virginianus igneus), (Irmilian Flycatchers (Pyrocephalus rubineus Mexicam) Yellow-haded Fits (auriparus Slavicens) and Costas Heummingbirds (Calypta costat) were very abundant. The foliage of the cottonwoods here and farther on along New Kives near its punction with the Agna Hilia, had assumed the dark rich truit of green Maraeteristic of the fully developed leaf, and the trees were seathery with the "cotton", which hung in fistoons from the drooping branches, ogathereda quantity of it at Autson's for stuffing and racking Theement. Heavis's soldfimments were here ibundant,

and young of soth species & Rabbito (2.2. septrations arizonae et callotis lexiamis) o very sinall dige. An other Gackass France was Killed and, like the Girst, contained but two young. The first Vireos (Vireo pusilles) hi well boro! The greatly mereased number of flowers show that the season here is Lar in advance of Verde, vering considerably lower. When we left lerde, two days ago, only a Lew cottonwoods showed any signs Holiage; while those at this camp are in full Smitage. The cotton" is used for filling mattrasses, and is soft and silky It can be gathered in large handfuls. The agus Hyja and Win Rwir both contain many small Lave bran seen although more abundant to-day. Lint Ceacti (Cercus giganletis) une abundant de along the way, which is mountainous on every side. the Whitesh "Cholla" Caeti, densely clothed all over with long clender Apriles, with deciduous joints very lasily detached;) was first set in Black teanor. The leactus Worms like to build their large nests in them; but we saw many of their nests in mesquites. Squirels were obuildant. It is hardly worth while to give a lest of the plante as they are nearly all found at Werds. Her first caetit, a handsonie red Cereus () was in Yowr, Enthorbia, daisies and othe composites, Junh and yellow fruuroses and cyfress were abundant. Of Manmals, a few Rock Squerrels (Spermo) - ilus grammurus grammurus VIIIa Colupniunk wer sun and Harris's Delihmunk was abundant as were both Decies of Fares. The Prairie Wolf and a amall species of But were the only other Species Scen Poirds - The Gillow-headed Let was everywhen common, as were their frests. Its note is a sharp metallic call.

The Rock Worn and Cearties Worn were both common of Hilled throat the latter on a Stelandoptery's Serrifernies. Rough-wruged Dwallows were blentiful. They like to settle on dry limbs.

The House Hinel, delegates to sit whom the summit of the print carters and oring. Some of their nests were built in the axils of the limbs. Cealamospige pulano-eorys was found in large slocks. The Western Grandon Frinch and Black theroaid Barrow were sunging in One Kingdester was seen on New River. White:

Poor Will was beard calling during the pight at Odumble Bee. Bullock's Orioles were first seen to-day; one male on the Agua Firia and an other male an New Pivir.

(March 28 th. Last night the Doctor and Isle for without our blankets Were not brought in, until near, morning. Hed lear ordered a rest in care to-day, so we expected to find time to skin our birds up and repack our vaggage, We found some loose straw in which wir covered ourselves, our blankets having been appropriated by soldiers as the night was cold. We both bleft well all night. After changing his mind, Several times and giving contradictory orders, the Keolonel ordend the "general" sounded &+ 7.30 a.m. The men were baking bread, which they had to Morow away. We left Hall's Ranche at & o'clock and marched 30 miles to the Grand leanal near Thornix, where we arrived after dark, and found That mrs. Russell had rustled some nice fresh regetablis and lettuce salad with Lobster Lor-our divise. The day was intensely let. Most of the premion shot were shoiled when we got in to camp. The first few miles of the way was over

Some mala hair ordages, when we reached a level, desert plani derois which our march lay, Il few barren mountains were passed, rising at white from the plain. They appeared to be volcaine , bring covered with malapai rock. The plainting corred with greasewood and eacti. Hee grant Cueties and other species of soreus, Echinocereus, and arborreen Opuntias as well as the sounde flut- jointed species of the same genus. "We soon Captured spicemens of a new Thrasher (Palmer's, of which we can the first specimens yesterday in Black Lanon Maile Crossing a wide gode of Covilled tridentata) We descovered a new Domirrel (Spermophilus tereticaudus), and shot five ofecunin At Desirt Will, about the middle of the march, We Sound Harris's Schipmunk associated with the new-Opermorphie; but the locality was at the base of a mountained filed with malahai rock in which the Chipmunks Sound a congernal home, quite. different from the plain in which the Spermoflish while so abundant. The first spremens of the Block-Capped Snateatcher were also found here. The desert was bounded by mountains. The only abundant plant was the greasewood Larrea tridentata) now in flower it exhibes a gummy oleogesin, whence its name, The flowers are yellow; stellate. a few caeti of the gertus Bereus were in flower - snight red. I mammals: -Thermothilus tereticaudus Baird. Fort Yuma Therworkill. This singular mammal leves in holes under the greasewoods, which it undernines, exearting chambers and lunnelling beneath the roots. Large, low mounds are formed around

they bases of the greaswoods lidning many hotes

for entrance and egress. The season for Thur

nearest bush, making advances lowards the burrow, the

Selection in excavating their burrous seems to be that the meshes boomed by the fine roots to the greasewood serves to support the done of their habitation; the soil bring everywhere light and loose, would, of every, be continually caving in upon their chambers and galleries. In size and proportions, this animal approaches The lelipmunds January, bring of just about the size of Tamas harrisi with which It was Sound tolday; but it is quite different in appearednce and actions, when alive, from Harris's Chipmink, Ho resem--blance to a weaseld, at truies, is very striking - When surprised away from to vivour it tries to Skulk unobserved to its hole, and walke low, with ite had elevated and poised serpent-like at a right, angle to the plane of the nick. Those shot had been lating the seeds of a hispid weed, bearing yellow flowers. Their huge stomachs were destended with Tood that they had the appearance of ring about to bear young they puter a low, plantive note when disappearing buts their ourrows. One Kept popping its head in and out of the hole, uttering This plaintive ory at each disappearance. This species mist be infinitely abundant in the region which it inhabits, for they live in enormous colonies. In many areas every greaswood bush had their burrows brueathit. In habits, it is ship. At a distance They were very often seen setting up erect like "Frairie Dogs" (Ceynomys) at the entrance to their burrous. As soon as they saw us they usually divid into one of several holes tresually found under The bush - always a greasewood, for that was the only shout found growing over most of the desertwould crouch to the ground and sun behind the

and Seeking concealment behind a tust of grastor Jamias harrise . The habitat of this species joins and overlaps that of the preceding species Spermophica teretieandus whom the lage of the desert, whence the Sootaille rise to the highermountains, We shot both species together, and observed that their notes and habit, deffer quite as undelyas think pelage. Letrus seglvations arizonal. - Many half-grown young deen Tepus callotis texianus. - Our vide lasted all day and the early part of the evening. Forwards dastk numbers of these Hares were been in every direction. Me Walley Kelled all he could carry on his Ladder, for use in the Company. The men make a very, Good have-stew in camp. Dogens of them were Plat by the men for Good. Many young were seen. During the night touts were Slying in great number 2. Coyotte Canis latrans) dero howling in our camp. A large herd of Mule Deer Clauracus macrotis) was seen in the footbulls near Hall's sanche. One was shot by a soldier no Odivide - Harporhynehus falmeri Valmers Thrasherwas abundant all along the way. They must breed very early for I shot a fully "grown young of the year. They are able to alight with implicity whom the dangerous juite white cacti, whose souts are armed with long, slender, sharp spines; and many were Deen herehed whom the minimit of these Cache, Singing a sweet song ; especially early in the mooning and Nowards evening. I killed one of these Flirashers and a Easter Worn at the same Shotin a green of barked agacia (Cercidium floridum, Beuth. in Tray's) I shot a female as she Then hast nieth a male m not pursuit, and brought her slightly wounded, to Han ground, where the male offrang whom her and they had coition, after which both of them escaped,

running through the brushwood and each. Besides their Loud song, they utter a loud, explosive note when rollicking together, did not identify their mests, but some large ones, built in cactile plants, were probably their. In habits they somewhat closely 'resemble Atu Eastern Thrasher; but are they do not hide and skulk in boushwood as much as the (Ked-vented Dhrasher (H. crissalis) Volio tila melanura - A few Black-capped, Unatteatebers, a species that I never saw alive before, wen found in the greasewood bushes near the Soottells at the edge of the desert, near Desert Well. They have a low call like the Cathrids (Minus carolinena). Hurihams flavreips. A nest of the yellow-heads Lit was found in a green barked acacia near Hall's ranche. It was completed, but no eggs were laid. The faunts granded their home fearlessly, scolding an elssantly Campylorhynchus brunneicapillus. The leactus Work were exceedinly abundant. They were heard Deolding continually, but seldown came in sight when thear at hand, their nests are seen in nearly every eactirs. The few that Dexamined were empty. Her alter a loud cry if pursued When wounded. The white sping caethes (Churtia (Degelovii I Atmik it is) is its favorite plant, although Their nest were seen in Vother species of! Cacti of the genera Opuntia and Cercus, had midded any where in dense shrubs or trees. Mockingbrids and Meadow Larks were abundant and dinging, a few Rough-wruged & wallows and Gran-backed Goldfinches were securit Haces a new River, Shrikes were searce, Frass Finishes amajing, a few Shore Farks, Saip Cowers Ravens Lask Bintings (Kealamospina melanocorys) were seen in large plocks, but one or two were in

nearly complete summer plumage and they an the first seen this season in that condition. Vebr Desert Station At Gerst Ash-Misoated Fly eather was seen and shot. The Termilian Filycotcher (Eprocephalus rusineus mexicanus) un Seen at Hall's Ranche, but not between there and Thognix the country bring unwatered and desert. No Leumining birds were seen after we lest New Kwar, where balghtar costar was very cobundant. A lew Tila Woodfeckers were seen about Halls and on Giant Caeti mar there. The Lexan Dapsucker Vicin Scularis) was seen occasionally along the soute Red-shafted Filicke's were seen for the kint time to-day; and leolaptes chrispoides was identified positively forthe first, although some of those seen yesterday alsoring the last day or two may have been Malherbris Flickers. A Sew Sparrow, Marsh, and Ged-tail Howks Were seen. Mourning Doves and Lambel's Levoil were insintely abundant. I praeticed wing Rhooting on horseback, while riding slowly along, and Willed goth Dover and Livail. Cynechus vociberus - Killders have been Sound everywhere on our line of march, sometimes, go to day in the most desert places. On the Grand leanal, their notes were sharply retterated the outside my tent during the greater hart of the night, while daat akuning Dgurrels and Birds.

Water is only found at two places on our march, a distance of 30 miles. At a place called Desert Well, near the front of a low mountain are a few shallow, muddy, alkalin water land, a crumbling building Close by. Here WE found brown and Rabbits in great numbers. At Desert Station is: a deep well, but the mater is alkaline . Hur. is a dry bord of a stream there, bordered by Shrubbary.

mulh 2 9th,

Oroke camp at the Grand leanal at 6 o'clock a. M., and marched across the Gila, 20 miles, camping on the south bank of the River. From our camp on the Canal we rode all the way to the main street of Chornex, through a wide arenne I shaded on both sides by handsome collowood, The alfalfa was a foot high in the fields, and of a brantiful dark green color, thoroughly to be appreciated after riding over a parched desert. The town is watered by irrigation, every field surrounded by an acequia. The water is taken you Salt Wir Several miles above the Town. The thousa and places in Mornix are cosy, and there is verdure and inflorescence everywhere. Roses, oranges and Un Cabbage palm wire in bloom; the houses seer--rounded by archards of apple, peach, fig, orages apricots, cherries and plums, with plenty of small fruits and vegetables. The population les composed of americans, Mexicans, Chinese and Indiais most of the store Keeflers were fews. All the sheets are shaded by cottonwoods; and Serval species of Loves were coonig in the midst of town. Thousand of Ked-wriged Blackbords were in Gull spring Chorus in the cottonwood hedges land alfalfa fields along the ditches. There notes were exceeding Chelful and pleasant. Ihrt my frist Specimen of the Scaled Dove (Scardifilla med) from a cotto I wood bough beside the road, and several others were seen. After crossing Valt Tweer, near some theyrea. dwellings some more of the diminutrite, long-tailed Dove were found and a second specimen decined I thought Theard levekoos (Loceyzus americanus) Calling, but was not positive that they were not I went speeus of Dove with which I was unaequantes. Many small brids were fletting about in the dense

Was the first to cross both fooks. The separates a little way below the ferry, into four diverging Sorks two large and two small ones; the ford crosses all of them. The nere is well wooded with collowood and bordered by manches on the south side. It few Ducks and ather interesting byods were seen; but I was wet from crossing the stream, my pory having been in swimming water, My saddle pockets were filled with water, and I was affected to stop and dry their patenated Contents as avall as my clotting. The anulile Me Nally and I took a good som in Salt Tever, but Sound the current too powerful to swim against one water was cold and pleasant. The troops crossed Safely, a few at a time, atthough a few of them Where carried a considerable distance down the Stream Some ondians crossed on their lettle ponies. Their reached the shore. Their masters took a bath in the ower orfore ording into Phornix. After leaving Dalt Kwer, we crossed a level desert where there were some Prairie Dog burrows, among which I shot a Pourrowing Owl. As we neared the Lila River the road Wend to the left and passed ortwarn a high mountain and a low range of Joothills, Mirough a seattered forest of Geant Cachi of large sine and brunch branched. Many of the Woodpeckers' holes in the Caeti had ondean arrows Lecking out of them, showing where Indian boys had field at the birds. In one place a young joint to Looky feet from the ground was presed by the arrows crossed, which indicated fancy shooting, for rache.

hedges of cottonwood. Salt him was booming,

and we had some sun crossing it. My horse, Daisy,"

ON The Indian trading Station of "Sila" WE found range numbers of Endians and one or two adothe buydings and some conals owned by the Frader. The Sela was vary swift, and we were obliged to wait a long true while the ferry was vering repaired. Your six muleleans on the South vank, loaded with goods for Thornix, had been incapied for several dails while waiting for the Lerry. I got over and lay down whom the clay bank to water the wagous and horsemen cross, but soon fell aslich and only awoke when it was sun -down, they were still ferrying our wagons across. a large group of Indiana voire grouped on the Surther shore and looked very preturesque. Our of the Squams was dressed in gran, some in blece and the rest in red. After my tent was fitched for the night, and I had returned an Indian stuck his dusty head between the flat & and grunted until I anoke when he wanted me to buy some green grass which he had gathered along the reverbank, which I, was very glad to do, as there was no grazing on the way and not a spear of grass in our earns. No han was resurd here. After this I was awakened. Several trues by Indians anxious to Sell me Some wase; but at last I made them understand that I owned but one horse and had all I wanted. At sunset, Dr. Clendenin awakened me. He had some lemons and wanted to make some lemonade in our tin ent. While we drawk our sour lemonade, the Doctor called my attention to a brantiful White Egret (Sarzetta candidissima) flying uf the River. It alighted on a cottonwood seross the stream and Lat there until dark, a few Quello were also sur flyning past. The banks of the Glace of a richish clay, and bordered with Collowwoods, a few willows, and a broad belt of arrownood I (Jessaria) and other dense underbrush and werds

Amuber of Prairie Dog Cepnony: columbianus) puriones were seen between Salt River and the Isla. The leotton tail (Repus sylvations arizonae) was seen in Phornix, and the Northern Hackess Hare (Sehns callotis axianus) was seen on the desert batwern Salt River and the Gila A low mountain morning brids (Oroscoftes montains) were Deen and heard while crossing the desert. a single Paluer. Harrolynelius arrivostris palueri) pa seen in the desert south of Phonix. Mellow headed Tits were very abundant along Balt Ruin and the Hila. Yellow-breasted Schats & eteria vireus longicanda) were very Abundant of Salt and Hila Rivers; and Fondrosea andubonic Kras also common, as were leacted Wrence (Campylorhynchus brunnercapillus). The following list embraces the other species seen to-day; Stelgidottery serrhennis. Rough-wriged Swallow. Foundant Theo pusillus. Little Virer. Dinging everywhere in brush Twood, especially with town of Thornix. Lannies ludoreianus excubitorides. White runfea Strik. A few wenseen. Carpodacios Grontalis. House Finich. Dinging about Phorns in numbers. Our of the most conspicuous visids Astragalnius paaltria. - Frem-backed Goldfinch Inzella breweri Brewers Sharrow Common at Phoenix Amphispina bilineata Black-throated Sparrow, a fewwere anguing near the Gila and Salt Rivers. Pooècetes grandineus confinis, Western Grass Fruich Sugary Philo aberti Abert's Fowher. Very common in Sulably places at Mornix; Arequented the rows of cottonional Frees along My ditches. Meloopija Gasciata Gallax. Monutain Song Starrown Commo on Salt Privir and an the Hila le alamospija melanocorys - In flocko. agelaeus phoEnielus. - Wed-and-buff-Shouldered Blackbird . - Some of the Mousands seen at

Mornix, Salt River and the File man possibles have been variety quibernator attrough onestee-- min shot on the Gila had a restricted buffer border to the red of shoulder. Still it riongo clearly Lo variety Morniecus.
Seolecophagus cuanvelhalus. Corewer's Blackird at Molotherels ater observies, abundant on the Fila River. Corns corax carrivores. American Kaven. Searce. Dayornio Dayi. San's Fluenieter. Houndant. Lyrannus rociferans. Cassin's fingorid. Hist sem about Thornix. Myrarehus anerascens. Ash-throated the catcher Frochilus alexandri. Black-churined Busining Fird. Only on, on the Liea River. Ceryle aleyon. Belted King fisher. On the Gila. Picus sealaris. Texan Dapsueker. At Phornix Colaptes chrysoides. Malherbis Flicker, abundant. Its notes resemble the Commo Gellow shafts & feeis. Centure propygialis. Lila Wood picker. In grant cact. Buteo brealis Calurus. Western Red-tail Franculus Sparverius Sparrow Hawk a few. levreus cyaneis hudsonius. Marsh Hank) leathantes aura. Lurkey Buzzand. Scardafilla mea. D'ealed Dove. First seen in the arenne of cottonwoods leading to Phoenix, where I shot a Jewale. Several were seen in the Town of Phoenix. and I procured an other specimen on the south Side of Salt VIVET. Enother gambili. Sambel's Quail. Genciedura carolinensis. Monorming Love Oxyechus vociferus. Killder about Mornix, Salt Horr, and Hu Gila. Nettion carolineus. Fram-wriged Teal Two on the Sila. Mergus serrator, Red-breasted Merganser. One on SaltRivis. Quesetta candidissima. Little White Egget ila, and vanained there several hours, until Lark,

Test Lila Indian Agency on the Lela River at ovilloer and march 16 miles to Maricopa, on the Southern Pacific Railroad.

diserty obrdered by distant Joothills, along the edge of which are forests of Grant leasti, some of which were found along the road. A shurier of the Given was crosed a few miles from the River, along thick were some cottonwoods and a quantity of lites and cat-tails; also plenty of green graces in which weadow Larks and Thrashers where surjuy the rest of the Country of bare of grass, sandy, and corred with seathered eaglorush and cacti Opuntia,

Echinocereus, Cereus, and Echinocactus), with occasional areas of bare white sand, when the sun's reflection was torrible. The day was intensely hot, Her little Speniophiles (D. teréticandus) were very abundant, and More of them were shot. On Inchain seemed to take great pleasure in seeing me shoot at them off of my horse. He would ride ahead and fourt to them. another interesting discovery was Le Conte's Flirasher Harrorhynchus redivivus licontei), of which we saw but one pair of birds, both of which I shot. They van and find with as much agility and curning its Hu Roadrunner. Dome large white Fizands scuttled vito their burrous at the side of a sandy arroyor, and resembled the Thrashers, than which they were searely swifter, both running lafore me with great speed and disappearing from voew. They seldow arose from the ground, and then only skinned over the brushwood a little Way and then ran swiftly in zigzaga amongs; the bushes and easti, They were seemed with great trouble and exertion, for which they were doubtless the more highly prized. The female's

ovary showed that Lour eggs would constitute the com plement, and they would soon have ween deforted. We were glad to reach Mancopa, bring very much heated and Catigued . Aust as not entered the maccowni) feeding Wor a bridge over a dry ditch and secured the sperimen. Horns of the mountain Sheep or Bighor (Qvis montaine) were nailed about the doors of a corral. We afterward leared at Jueson that Mountain Sheef occur in the Santa Rita or Santa Catalina Mountains, and that serval were kelled by hunters there during the hast winter and sold in the market of Jueson Large flocks of Yellow-headed, Brewer's and loow Blackbirds infested the town and especially At corrale Marieopa was vitusely hot. at the hotel we found good food, accommodations and battes, but slept in our tent, after skrining our birds and Spirmophiles - such of them as horre not spoiled by the great heat. Thermometer 104 ° 7. The water at Marieopa is supplied by wells which are several hundred feet deep, we were informed.

In camp at Maricopa. Finished on camp at Maricopa. Dr. Clendenin and I went wit hunting early in the morning, and went gone from 7:30 a. in. until 10:30 a. in. When the roasting heat drove us back to our tent. The Black-throated Sparrow, Boswer's Sparrow and Mocking levid were the only species at first met with Brews Sparrows were in small flocks in the sagebrush and a cottend energities, and twittend in chorus. Somewhat as the dree Sparrow (Spizella montana dose, the love long is a fine, misset-like performance which strumbar resembles the Long of the Warblers of the Helminthophage germs.

I I will the her to in in a some necessite - Lile un i riya a true tay offace Istarted . huzuit, but they work hight for an my aponume Cerior to a bridge elevate get it to many ance, and of circulary the ned unt in the Decent with had found a must or some unterown bird and bringletime The eggs I have not been returinged. They are a will know and ourse drougated but otherwise Vise while the eggs of the Long - tailed blint, a bird " with never resides on the barren desert organi-Augustes, and the nest was lotally defferent Grone the Chat's, being ytobular with an intrance cot the sade lake the Eaches Wiras, At was built in a large arborrecent cactur (Chuntra). Weat once set wient to find more meste in the carti found an other next and oute of eggs exactly like that described above. Il idea offerend - werd nexts and eggs of the leaden & million - who high brunnoken hillers). The suy I machine entred to be Executer, and the sound them so very wild That we wised to secure a single specimen. Their stay was itend and Jine, comparing Laworably with the best estate of the Electric Morown Througher. Hours part when He to a more widely a carter in mesquites, and flour to a distance not en ever a Dirocalua, dropping down low and " exporming a part of each flight under cover of the say " " presending to the the shestorite like a Shrike Their high twee you difficult to follow, and of their managed to hear the Location and redyrelf.

Next and eggs - We found a next of the leactus

? Voren containing five edgs hard and afon, Unothernect contained young several days old. Iwo offer

nexts (decensed above) with side entrances were found

but the eags, four in muniterior lachease, were totally

different. Itil were mark incubated, and any orec

this was added stuld be preserved his the usual way,

minister and the state and afternoon to the contract the second the contract to the second the contract the c

the Maxima Flan (Substitution allem many), as a loss to the Maxima Flan (Substitution allem many), as a loss to the Maxima Flan (Substitution Canada), as a loss to the Maxima Flan (Substitution Canada) to Mortale Flan (Substitution) and with the Maxima and the Maxima and Max

Of the Lichtestermen the large white Franches Ite I want on house the Interior the promise the production of the production of the production of the acres of the production of the acres of the acres of the production of the acres of the deat in a circular creater on the demonstrate of the deat iften are as earned as a small beautiful of the deat iften are as earned as a small beautiful darge black seids

to senttle of asmit the trunk the grania

Mil 1st. Majissum limpurdline 1043 7. The straited from Marietha carry in the morning and , marched 26 miles to Casa Lyanac. The country was a level desert with alternating beits of sage brushant Treasewood, with merquites a wild in places forming groves. A Rattlesnake was pelied the girst seem on the Frin. Lecoute's Thrawher was met with believed as far ex The Station of Sweet Water, where it was left behind. One next was a temards found at Red Rock Station, the or at cartin cocality, where we have found it. Although a militier of these hale Thrashers nière seem, they were so execusively that only one specimen could be Schula. Hill shifteness in Lost and habit of were again, red, and received were heard Singing delightfully Denien Hailar (Hear hypothis Courseus benderici) I as sint seem to -day, at trong into eggs wer taken out "Theristia of sterday, al weis This in was also, corning and both of their resila and eggiller force Many mate dittu Castus Pose (Campiflither actions) · La Bein in the carein, of ettill the yound de Frel extenses thicas, action in medicande in his benieve and look the nothing trail, which sed him to the wies and sindian bullage of the Viarietpas, making calleni maria (Lature) na calleni maria calleni maria la calleni maria la calleni maria la calleni maria la calleni la c Comes ofrom Manieria the ingrait and some Lucuit traks in which he told us he captured all of them. it int he needed in his yard. They come there in reat minuters and della Kalleits, dor water. to the right of the lawroad is considered out at Etiam, it Mesence shows by the large neoquite. and shrusbing growing in a belt above it. The two sices warieties (collotis and tyranus) a Le une callotis were about Equally numerous. "i failed to seems am, of eemers. Theday was the Woltest we nave wet is arrenced.

At lease Burnie, we would over store and first and the fir

The country the same as yesterday, greatinood Augebruick, and a bush with pulpy leaves, and red Brice, cater by Quais and Thurshers, Prairie 18'2 Alleka was sien in west of the Short Caroling the men the die ting abuildant, as many as four or fire bring seen at once, They gaile of logether forneimer elear out of sight across the west desert Their white unicho make them 1424 conspictions Whe or mining the hinder faith are defressed, and they June! wi Kangaroo-like, while the A orthere Dack Prieno ni trhind Aton remain. he him sheeter here live side by side, and i air land their subly specific Character. The fact that the fluxuran Han is and larger - and this fact is contrary to the generally, orccived o union of authors - Itian the Corpherio form leads due to Flux Mut The two 5.0-called varieties of Lepies Callotes are two dis-- timet and deparate species, siting together in tu degrion brangered by led and maintaining their characteristics distinctly under preciocly the same conditions of environ went. There Haves come note the corral to drink during the trollest and dryer weather, in droves of trouty (20) at a line.

I d'union brought all la Mill and Entere se could tile mito our camp, and me things

Mil 3 nd. 1, un i 4 m shade 10,2°. The har in 14 Bin to ted itali Station file on The teres and to parise, exerts the secretation of as diens euri or to explanted it at a conficted and caper in the of the Acousti fine dound, money of the ide ixan ide in planting hood rekers In of - live. In a branching joint al a care cucius in found a mestal the Machieters Alceker (Looka the Chrystines). Hour heavy charges on Shot at the base of the banch brought it to the Grand. Hu mest bras only the ban carity, lund mit the dry and indurated tissue of the cactus strance a hard that around the carrie remobile Atin shell of a gourd. In This burrow wire three! Lastings. They are endently larly proeders. Hhim eggs. a. well as there of the Sila), ordhecker and Several spelles of Cute might south, be abtailed by the wid of a ladder; lest we had no means a reaching the hests in the holes in these enormone Carti, which afford a lion cand shetter to severa drecia of Small Juan mals. leactus Morene bread in the axilis of the branches, and Hawks, Lovas and the House Findol, also make this Singular plant There home and deferile. None of these Casti are yet butte Préacho Pear to the for ocorral days the best a prominent landingok. Octong its base is a forest of Leant Caeti and Frem-larked acacias. Both speads (1) Jackass Heares were seen, but the mexican (variety) is much more abundant, and has been for several days hast. Several of them were frequently dece ridning Gogether, but they were dure commonly Seen an Rais. The logs of three species of Flirables, (Palmers, Le Conterand (Denderes), leactus Wygus and Divar! Cowbridg ugre taken. The well at Red Rock I tation is 260 feet deep, the water pumped up by an lugion. A leurleur Max Sternand shot at ocornat lines.

Marched to the atequia a few in the form, 2800 in the same. The standard of a contraction of the same of good, and to the same the action of the same
macrotis musium.

Helota ligition in the most of factity when it is a conficulty when the conficulty with the conficulty of the conficulty

Led along, we haved, wie, Rivite Station, a vanishe bathy surrounded by Junt Coach with Station, a vanishe bathy surrounded by Junt Coach with living planted to form a fine; fout a princer of the large barraise casti (Echinocastus Manigeni) had widetly trace have very constrict, and the formant gapoin with the prince of the vanishe was with a prince of the vanishe was with the give of this is the fine of the vanish a prince of the four of the panels with the four Public Walteral. It was a when panels, but the plant course the panels.

After learning the Musican ranche live soon got into a common the of large Musican ranche live soon got into a common of carge Musicante mark equal in sege to those at first make of la Colorado Mister, and found regions of materialists, such - excelled Thy may flex, i consider they are been and ather birds, and hasted a member, of sancher and ather birds, and hospitaines, when the humbers "(ach "(mile)). Nordinente mays were mune, and about the houses." i coround herds of Swine. It imag the stream were handsome meseguites in which were munition of Horded Cricis and Cotoms cuevillation) and Monutain they calchers,

Lound of the te prime the still on the triggland of one also the the prime the still on the triggland of the prime the triggland of the prime that a prime the triggland of the prime that a prime the triggland of the approach, mean enough to a a shape.

grun grass for our broses, and one of the boys
frontial to some bird, lying reform they pannier—
and exclaimed "Solderita" (blittle soldier) and singled
out the Verniderin Fili, calther Exprose phalus published
mexicanius) again exclaim, "Soldenta!, Solderita!"
his eyes carbing with ilianure and admiration.
It no, or of preased to warm this mane of the flexionius,
so were, a tropriate for this conground little bein.
The east fire indes of to-days made was directly
a country congrick in animal life, the world.
Outhly is hay a long and troping a commation.

Marched Low the acquire near Lucson to Fort Lowell, A. J., eleven (11) miles. Hu Doctor and I let to Compete the acequia and rock Strong. the Muxicanis randers, and the mesquite groves and le cottonwood to Jueson. We saw the R.d - vented Fbrashmagain here, and the Zone-lailed and Mexican Goshawke, in Latter (Asturnia vitida (Lagiata) for the first time. It. Inogrammatic (Helminterphaga lucia) for the first time. It.

Men would fly abundant, The extract dais, in scripturen. Andube istarbier and the Chack Chilled File sonapher liter Ver abu dand die the orehund-like groves of laitinesque The Language were built of marquite good which are very durani, and manjonisquite tree are growing in the grain-field at an eliterracione. They seemed the have a ment que ni, children, and were good of them. Cin long-branded old mon was holding a little child on his lakand trusing of tendering. How, nouser are surrough My cotto word-hier in heart many shock of lossed during . the old durient town of Lucson 12 4. mint and Emploin. There are many handsome residences and once her pretty good hotels, and. some que public buildings. La bourd an actobres often herring a worker as wild the second store and an d'in Comides inserior the conter. Lucy à re square er rectangular with (mostly) glad roofs. "The called report Hatcher Autoine, and found him very wellte and considered when we copreded hat our colerect mas to obtain a neverit to itsit the old Elicerchat San-Karrer gand wrote the winit in Latin The Doctor did the lathing, and the oread, must was not suito, and what may mand were so, he unate " admit Atte bearer and his Ariena". "hugorlusatety is were unable the arail a weiges of this period, no our worses were too , with Lagged by the ing marching and wat, firthe proper Load our suggesticient water the ride from Lucson to Hort Sourill (civilles) was pleasant organ on execlled tract road, lightly review to the base a the mountains mear which puns the Santa Reilite driver, a servace stream with deale modern banks on the row of the Part of Fort Lowell. " "halla" Cachi il are a condant and a usual readuid be nesto of Senderi's and Palmer's Hiras all mearns Cache.

Morris. Cagenz of Helixican Harris Waterhouse)

none of the Cloritan variety. The printil al 12 go of

ande for out in a recommendation of the inter de l'évolet, les manites déservé à une surease to the size or amail trees about the Vost. Lr. Monking, An Past Surgery of at me in I soletie The var and was it the tratagest in france, and will I della id to a i wor in outel coainers, unged me to die a d sie d the freming, which latter ? consumer to do. I in our tent a Lucy structer ma o carrying · materiale into a bollow truck of momente for it mest, and setting united learning it all Ruce rear our Cumi (Laidenalis migriciarios equicos). of icas sur hisid To and that to Holking and learned from me how to muke exeder + levid of i are had collected on number of specimene of the chiest brail but brids at it our facil. He want out with me son a short me tand his woon secured a large though and the dist Sadirail Luck Trat Seit, sawwell former in fick. The arties the Eighting in booking our serverine Readingossife. Mather wary hot. Lowell is a trantiful post well watered from the Milito and Shaded ley 1. 4 news of handsone Cotton-- prood , surrounded by large neighter. He River is a marious wheaver gentler if a with ted a sand, translated stronded on Cottalias, to the southing which are rugged and booken by dul passues and wooded with prices on the duminist. This or Egroinsquer bran carefully carlored. The postfulls are so red with Italely "Lahuaras" or Frank Cashi, an white Dr. Hopkins has found the succellent Concreta Over (Mileranthe Whitney). I'm quarters at toward we execut. They are built of adobes, with wide hulle and prazzaz, the latter shaded by a Leautiful many of the ochitella (t. extendens) whose leaves are as open as when growing in a water al state atthough the holes are medely thrust into the for

In Range at Fort Source. In the warm in Dr. coloude min Dr. Hopkins and myself went shooting. The Jolivina te Rillito a mile or two and found birds lie great i ain-- ters. Among ten tre Bullotalea and Andulous l'artley Secral Diere de de calé de d'Étacilique Vivil +-4 recce. Ser allourt, l'es inin flycateles were ain utant. Mé. igound one west containing young that were a caredy able to dia. Manopepla sutions was execusively a Gendant, and were Hooded Oriole, Canon Lourist, addicables freither. Lite " out heller and Maches be's Fleekers were abundant, but the latter so shy that come were shot . Hour Shecience Black hi, de and The Cheadow Lark (Stimella neglecta) Mulabundant. Dr. Mothins d'ist a handsome Devanisons Reaute, her I we did not carry it home. Lucy of tar her was it is af the most abundant brids, and Svirging congulum Vin Yuma Shemophile (Spermophilus tereticaustus) is exendingly abundant in and around Fort Fourtle. and association with come had made them far lease stry than those living in the desert away from human habitations. I the groved along the Willito are pleasanter and prettier than any then, un have before secen on the tril, although parts of all lerek, the legue Fria and flew River ralleysail wary Morastine, in I hade and sound of Linging lands, the little, wat and and cool flowing water and the siterestine piante made a very agreeable change from the Shadeless, torrid desert with its casti, grease wood, and Sigebrush and nuesquites; but ME incolones back to the host at noon and after leking bunch with Droton Head Knie want to Jucion logether die win Past am - bulance, behind a good team of nucles. "We una de come-princhases of fruits and supplied for the Avarch and drove through the lutire place. A Stender - billed Nuttatel was shothing willow tree beside the Rilleton

Marched 18 piles Tto Mountain Spring. When Several Prince Ester the Post of discovered What it want Reating game hay containing my mote-book with all my intronsing territar notes and or caverrements of Specimens. The hall said that our cand had doubles, from holiced before Atun, and that in all probability my note-look would be found and lunes or with the Provost Surgeaut to En Hopkins, and was Lattled " le & Cering Redical Lepartment." on the arrer. "ie look nests of Palmer's Himsher, Black-Capped Duct--catcher, Black Fredlick Filyanables, leached Wrom and Dandel's Quail, and anade attins is the Scaled Leave, Hamba's anail, Derthis Criole, Black-Capled Gual Galcher and Hallette fulker, and shot served after ofecies while were thrown away for lack of time to buhan them the derict ten miles was across a level sand, country, thether grown who to cacti in a many places and abounds and Production. Sila Wood pecker were playing at hid. and seek in the grant eacti, and the familiar - breaux resembling the Rostem - Eries of Mildeberte's Flicke resounds from Caclus or mesquite all along the way. Without down a grant callos containing a Hocker's ricot. This in distroying the single eg grafonid crushed in the bare Cavity. The burrow was dug out of the propy tessur of the carters to one side of the woody cylinders winted to form a certifical outploot to the poonderous bruk

and kined with the immediate creating. The courses is a musshaped the expanded extensity Delow. The crustice shell seemed to indicate that the lgg was similar i feat loss in die, the Easinger Allekers, and, like it, mad if course in with lake Kaminal- Forstrallo were arind, but no presumanière Decined as they were day, minabite y bushy whichets ithere, when seem, they live too man us to be shot, and we had with time to opendin ination for them While doing so, houris, is found a most containing young a the Black-capped Frateateler. L'aritelle Quail was executivity printered, and a simul 1182 frighet inter his remiser ? I would sittle ditter (Sepus texiamus and L. alleni) (Spurmophilus tereticandus Bis) in the factor of the 1) it deaned in which the collection XIIII (Guller in the contract of the contrac it a long / com e continue and and income and and are seen and the trace externille stay with a facilities of the continue weedle. They we have the stand we are the took . and are and for the contract of the contract of April - and injuly and the second the second of the second the business and made in the there is the liveres The course by not und growther of assertate dieners, that fire the thing is the format diate, with in constraint, Manageles Quail ; lich Taxe the mount in accordance his wat Lugar file , with the Te many closely process free long distingers in a found in your is the dunce dut when while a cold in the and the the second of the second winds from the the

could not be found. Whoy those Loothills were splendid specimens of the Spanish boyonet, and Yucca, Stant Cactus, and the clusters of spring wand - Sike branches of a spring plant with small ovalor spatulate leaves terminal dusters of suchia-like coral-red flowers Hougmera aplendence). the interest the property of the second and to The service and and the service the in a site of the second of the second and in the state of the state of the state of the and the state of Marched from Mountain Spring to Free Alamos, on the Dan Pedro Pure, minis. Westerdan ME Ceft the level desert place or without we have their training Since it left Healist Ranche on New Stirer, on The 28th of March, and began to graduating ascend through rocky garge, where I suspected the presence of the Massena Juail (Cystonux suortezuriae), but on superficial examination of the neeky hills facial, to find them; and, indied, none were seen outher til Tewis A Woodpecker (Asyndermus torquatria) was four along a stream that it soon marked, called , where there were cottonwood treed and many winds, Hoode Orioles and Vermiliain Fly catchere the latter flew high white is The is and fluttered in one spot with their longs provaling rapidly, then develeding, Singing or twittering to the top of some bush or True. the motes of this bird are fairly entitled to be called a very The country was rolling and rocky, covered with . - vapured, Spanish daggers, mescal and stunted mesquites, although his the neighborhood of streams

the true service read tour but otherwise The sagetrush graneword for miller tridentata) were the grant each after the quiet dew sinces of todays maren, and willy peure re heard (& jarrely) the aroosesent forme of eactive. The Saint ceacture I'men built its hest Ini decenderous trust and mucea planto malead fin tru carti and sahuaras, and breamin searce. At Tru Hamos, the San Redic is a mitte detak, showed by a single long the of truber and blackery. The vanch there is the hast built and survived that a house were in Anzona, and its rivery are bracking property and the property and the cartle business. [Thise) I having made a fortune in the cartle business. [Thise) Incy's Warthers were singing in a lively manner in Near its alfanos to a Sunga or mani, swamming with Ducke and small haders; among them wan Conlew, Greater Milow-ir, 2, Killder and Comanion Leal. Dr. Celendenin shot Greater yellow-legs and and Emmamon Leal, but they were lost for want of time to skin them. The aid that an offer-- tunity of examining this indiscilling for autilimenty The only Manunals san wice: Bats, the first Badger Some Ville Dier Lika Chiefmink and Hort Privat Spermophilus spilosoma Wood Rat, Northern Jack Massix and Sommer Porker Forker Humbrins). The Gila Woodpicker, Lewis's Woodpicker and Mal-- herbis Flickerwire the last seen on our eastward march, and were only sound again on returning to this orgion. The Vermilian Flyeatcher was not again but with until we returned to Mountain Spring The hourous of Spermophilus tereticandus (com While in open grassing places, and formed large pices of East. None of the animals were shot, but several were seen ourring into their burous, and I have no doubt as to their specific rdintity

Anril 9 = 1885. We had a long march to make, and so arose saily and lest camp brion daying it, marching 41 pulls to Frisk's Rander, making the longest match on the tri, The road was good, and in order to reach camp be one dark we delayed very fittle to hunt for specimens. The country was, mostly solling I footbills with oceasional rocky garries and level shetches a Surval miles extent, then yor 25 miles rolling and everywhere covered with curled gramma grass, without shouttery or trees, except where the sparse arroyor crossed the good. A few "White to!" Limits Call pepla Ignamata piere Serie lander in the morning They were seen perthed in hair who is a tall mesegnite of resert willow and uttened a note like the Luniea frenz loud enough to be heard half a mile. They also wither the dance notes where in the grass. They were found in valleys near the hills. They flew long distances and own up hill with over greater speed than Danibal's Lucil with which they were associal? Both species could have been Killed at the same shot. their call, when ourning, is low and ungue. They do Nie to cover and water than Lambel's dead, and Their flight is sure longer, the flock sharature, and flying in different directions, towards the end of dur march, which wear the Point of Mountain, a Spair was found in the short granunia grass , far From any cover or water. At Hort Frank May Lugil and two others (Lambels and Massena) are forms: he early hast of the day was shout in rolling, rocky country, which the White-loke appear to lete. Jambel's Living was found with them, twice in the Laure Hock or at least in the Dawn place at the same time. The Knopest flock of White tops seen, contained Cut deran. They frequent by preference helsedes and ferst such places is to unively

which the contract in product on trees and should at morning and evening and calling loudly. altituga when first discound the usually trutto escare by sim-- mini with a reat singuese and liding welind bushes, Missocks of grass, Spanish layouels or in groups, they Smally hide and like more closely than Lambel's Qual. Then a flock durder and disperses in deformet in retions it is very difficult to find the scartered bird without a dog. During the first part of to-days quarter That wish bayouets, soapured, rueseal and spicea tiere numerous, but it's left them behind and had only granuma grash and and trautified annuals: Promores, yelow, and white, Yellow fight with ways centres Apllow Combosites with (preshlish-red contrispend senate-edged rays, and handsome Mapine of the genera Derivagajus and offices. We possed the Fire Oaks " where two White settlers were Kriled by Indians Two years ago, and sow their graces, there is only one out left, brides a stund of one other of the three. Delimbed the hir lor green oak and excun-I med an old aust, horably a Raiser, as it contained feathers of that beind and now lined with rage, probably The old dother of the dead white ouen. at Verde the Kavan builds on ledges of ook in the cliffe; lend this nest man, have been that of the Whitenceked Karen (Comus ery htolenews), my first spicinical which I shot to day, on the wheeled the shambles at the Point of Mountain. Dr. Schoolenin shot another on Aluaning in a Vrairie Dog" town mear there. At the varche is a large village of Barking Squarels Comony Columbianus and Bearouring Civil Spectyto Chypogaia cunicularia), in which her thunted for both annials with some success for a couple by hours, while the troops and ungons passed us. The men stopped, and shat several I mirie Dogs with their Cartinis. Hor miles the Currows of Miese annuals

were thickly ecathered over the live flavie of chargery soil, which is probably better sented to Her habits than the light sand of most of Angina Here the Bogs" fairly overvan the consistry and Their shart bartering was meess out, and their tameness surprising. We had no difficulty in getting near enough to test them; but their farrows are son constructed that they roll and of reach wach the fore they can be reached if not Killed perfectly I dead, and even when shot dead ther lefeless bodies double up into a ball and Vole down the steep welove of their burrous simply by gravity. Iteral of Ation What 11's Killed could le heard Kicking at Ath bottom of the band no blein live, quite out of mach, but we managed to procure a manbarrof them, We found that a Chot delivered from exactly in front of the annal as it gat at the lot of its mound with head and shoulders above the own of earth which formed a brastwork, would alwest blueys Kill Mum dead. Dr. Clendenin That two at once That some basking together in our hole. A good many occupied burrous had no mounds around then whatever. The awes were shy and would fly ahead of set untel, when tired of leading us On, they would enter a burrow. They commonly sat in the month of a burrow just below-the level of the surface of the ground and when surprised would fly out or dook down out of sight. Other would set with their beads exposed, slowly sprinking out of sight as you approach. The wandly flew several hundred yards at a flight, Cle tin Whole, they were sley. Swenten dogs were taken in all, and harlie of the since measured and stanned; but several, were subse -quently distroyed, along with all the skulls but one . unde to my soroon, as we did not passion

Place on the return trul. Alter leaves the Prairie Log"-form, we crossed between the following the Calino Reputation of level filami when it were was good grass; but nothing but sun and of Northern packass Hares (Jehn calletis lexicity) could be seen. We reached camp just, in Tonic to arrange our tent and belongings and east our denier before dank, and were glad to hear that we were for ormain in camp were to-morrow, affording an opportunity to present are specimens.

Our lags were as follows:

1"White-top" Quai (Coallibelia Squamata),

1 Fambel, Quai (Faphortyx gambeli).

11 "Prairie Dogs." (Corress on plotemens).

1 bolorado Raren (Corress on plotemens).

14 Dr. Meanus.

3 "White-top" Quai (Callifepla equamata).

6 "Prairie Dogs" (Cynomus carpitolemens).

1 loolorado Raren (Corress cryptolemens).

1 Pantroving and Carle Corress cryptolemens).

1 Burroving and Chrolita hypogana suricularia.

25 Fetal.

In camp at Frisk's ranche. Skinned Prairie Sogs and brid all day. The White-necked Rowen (leowus cryptolineus) is viry abundant at the vanche, and extremely tame. Swaral were shot by the men; and I gave Me Nally my shot-gun the procuse me a specimen, which he did simulately. It was very bot in camp. Our ambulance with some officers and ladies came in from Fort front on the way to Willox to the Railroad defort about six or eight mules from here. We Wally shot a lot of rabbits and seported nothing close in the vicinity of our camp.

To-day eight troops of the 3rd Cavalry will encamp at trisks Ranche, and join us at Bowie Station to-morrow, together with one Troop from Fort Bowie making eleventeools, one troof bring stationed at Jellerson Barracks, Mrs. Mc marched 22 miles to Bowie Station. The country was rolling, covered with Excellent curled gramma and black gramma grass, with a few low mesquites and occasional pateties of ragionish, in which a couple of Scaled Thank lealthing Iguarrata when we descended to the railroad where it crossed the shiricakus Range at a point named Railroad Pass, separating a Spur of the letineahuas, the Santa Bonita, from the main range to the south, where a prominent beak Erouned by two heads called the Doe Cabezas" Sorus a prominent landmark. At Mailroad (Bals) WE first Jound Cassin's Finich (Vencaea Cassini). It was Singing very sweetly alsong resembling Sumella neglecti's on a small scale, from the top of a bust wear. a dry naturcourse! The only other birds of ofecial niterest we Colorado Kavans (Convus cryptolenous) Which was abundant all the way to Bowie Station. No trees were seen on to-day's march, and searcely amyshrubbery save along a dry bed of a strew between Assunta Railroad Vaso and Bowie Station. Ut Bowie Were a number of Berrowing Ceves which enfested Were heard sounding their remarkable notes during the night Frut leol. Clendinin had come down here from Grant, where he was on Court Martial duty, to see his Regiment off, and he Intertained his For (Dr. le.) and negelf handsomely, having fixed Turnsell coaily in the 2. M. agent's quarters; but he came down and sleft on our tent that night. We Sfew the evening agreeably telling storers; and I was

the brite for a good deal of good natured satisfe on the subject of my apparel, having been "sumped" on be the Colonel for not wearing may uniform. HE (Col. Corackett)

In caminate Bowie Station.

"M" From a the 3rd came in front Bowie Station at 10 octock a. m., and the eight remaining From armind at the octock, having lead fort Front one the Mit. My two Heavita Stewards (Merner and Humacker) reported to me; but the two a. a. Surgeone did not a rive having in orders and fr. Werick by change in orders and fr. Carter-was supposited by a civil court, as a witness.

My distins occupied much time but is made an opportunity to repair the spine of a hair of leolorano Ravon, four White-top "Quait, a Voursoin Owl and the survey away the princh short at Mairoad Pass.

Then atreeur away the ormaning skrip of the Prairie Logs, leolorade Ravons, freely, freely follow Lag.

Prairie Doga, lectorado Raisus, Frater fricour lego and revised other things of value for lack of time to make what successes. I repaid the whole of my baggaise, and preparted for the trip to Deming. I regarded it as a great prinsfortune that I had no medical Officer to assist one as I had expected, and subsequent create confirmed

Besides Burrowing Outs, Blackbirds, and:
a few-Sparrowing Shrikes, ite nothing of special
interest was seen about our hot, chusty easied.
A good bath in Day tent was enjoyed. I regulted not having had time to visit from Bourie, distant
only 14 miles, in a valley his the footbills of the
Kehir itahuak, marked by a high hack called Helen's
Plak. The foot hills maret his ware probably seven
or cight miles away, wooded with evirgeness, show
attractive in appearance from this distance forwards

blowning a short shower settend the dust that had blowning a strate our tents all day, contine prompting, and the graning was agreedly ofent with First. Let. Kiend in Leaft. and Mrs Russell with attent.

Marthed to San Simon, sie San Simon Valley, K miles.

The orders were to ride an the near pear enough to the column to be accessible if media; and a fine viring of the moving regiment, which suggested to the poetral mighty boot advancing, Satan leading ou!" The Please From, headed by the Sectional of Refinant and his slass (exception myself, and proper doubters conting doubters entirely, and followed by securiting doubters entirely, and followed by a long securiting doubters exempted), and followed by a long securiting doubters exempted), and followed by a long securities of magons, ampallances, and private reliebes, meading quetters.

The first bor7 miles was destitute of bushes. The curled grand ha grass and brautiful flourers covered the ground the ground flue yellow polyhies covered the makeds of acres, and the found members of a func white variety of the fame specus. A whate species, or variety of lanks then was also abundant. A bout half-way, wideams to a wide and of greasewood, with half has of musquite, gooseberen and saget much interpressed. A munitar of Burrowing Cloubs and some hack Rabbits were the only amount of hung size, except a few Thrashers and leolorde Planew A mest of the Black-headed Lindcatcher Coloftila melanum was found in a low Korberlinia guecarimi, the old burd situe wor the rust. The four eggs, incubated considerably, were successfully "blown" and presenced, whong with the first.

July one or 7100 small arborrseent opuntias ure found. a large (Hawks?) nest was lound in a ruesquite; and Hellow headra Tito wests were immerous.

8/1/mil /4==. Left San Simon, arigina at daylight and marched 14 miles to Stevers Pars, New Mexico, arriving there early mi the forenoon. L'istance, 14 miles! M'centised Hu New Mexican bine about 3 miles west of the Railroad elation at Stein Pass. The last mile or two war up a gentle Stole Aterough which the S. Pa. R.R. Masses. Me sur a hassenger-train morning westward over the down hill grade at a very lasy swelf the rate. de the Tass were recepten trids. Handsome searlet Casti and intruous dusting of Spanish bayonet floured. De Clandini plutkid a frautifiel bournet for Mw. Russeurs mess-table. Have were more casti and Some large agairst. The found Brewer's Charrow's most Containing Lie (6) many montated eggs, Ashte affrage the Pass the valle, breamy broken by dech gulleye louands the Lookhells, the flourerand plants were about as yesterday - Spanish bayonets, White Antian "pricks" (com listers); fragiant. White (seared) and orange-yellow, poilies, and second, sagebres innegies and a few cacti. Many large metricale to En your in minguines -probable Haurel. There were a hum-- Ver of nests of the Gellow- headed Sit. One contained large yound once I notice but one next of the Lactus Wrent in on artorisand operation, of which plant there are very founded in the part of the Dan Lincon Valley traversed by us. Ser, at Thrasiun sun by med were not positificy identifica. There were both species of Karens (6.6 corax darinos - res et cryptoliceus.

A soldier totile gathering feel, was better on the thumby both fange having their mark. I mondiately worked the wound, and offering the scarified and sucked the wound, and offering the cauterized it theoroughly, meanwhile much rating their on which the was resumed for duty wext day.

There is a migniere lange Snakes called by the lete Tusters " seels Snakes" in our care, c'skinind one that measured 62 millies mi longth. It was caught bif The Nally blind my tent ind brought to the allie e allowed it to encirele my boot-leg artil several turns of its little body, and was aslomethed at its Constricting forec. Our camp on the pumint of the Tass was exceedingly Justures que and heavily Overved from some mightoring hills, which sie Clinical intreased of special. Nothing of special interest was found in the few scallered cedara, which, by the way are the only trees encountered log us, except those seen upon distant mountain, Grillegan Fres alamos (, with the Sugh remain oak at the "Thre Qake" and a few cultivated Collowoods at Frisk's Rancher) and Seming; and, seturing from Leining, trus were not seculexcept enryruis ondistant mountains) until ur reached Gragoon Summit, ariona. Thecal, and tall Sparish daggers and Soopweed were abundant in the Pass

Marched 23 miles to a water tank there ancessant of Fordiburg. New- Me xier On the first mile ortwo, through the Pass, were erreasewood, muscai,
ynceas and Shamich bayonets. In an area of
very tall soapurais, Scott's Orible was doubtless
brading; but I did not then know where to look
for the nest, which, however I subsequently discovered
incar fort Fowell in Arizona. I shot one of these
transful Cristes; but it got up and flow away when
I dismonsted to pick it who a few Raverso of forth
ifecies were found here. I shot one White-necked
Raven worms cryptolenens that flow orrapead.
It flow straight on 500 yords and then fillediad
and was found and preserved. Our last camp

was on the sum, it of Steers Pass, with a high hill with rocky ficeipitous sides on either, and. at hit. Good of the Past, a mile or two from last camp, lix heacher a winde ralley, in the contre of wouch to an enormous area of smooth, actually extracting. Male ciay-colored soil, which looked like a lake sta dictance. A wrice margin along the edge of the calley many Franciand acres in extent was corred with a rack growth of execution grass garring the roots of which quantities of Small unialve shells neve seen and shee--munes presented. The it were scattered praise of Southern Shore Farks, windently breeding, as shown 1s the condition of the abdomen of a female Shot and preserved. The male flew and fluttered over Ah body of its dying mate, and was not frightened of Antil I was within a few feet of it, and then it I futtered and cried overhead. They on the level courte Vof Miles "alkalai Slat" as these districts are linned, Mot a vistige of vegetation exists. The Smooth clay surface was finely multifissured, but so hard inter our horse's hoo's scarcely lest are missint. The Kailroad, for some unknown reason, here describes an are of alerele; and live out across it and so easily cought up with the column atthough we stopped one the any to set our lunde. There was a strong wind While us which made it casy for the anciends. The bragonic fairly sailed across, The annes seascely fulling a plum. He muxt crossed a series of vidgel corred rather seantily with greasewood, where the Aurrows of the Husia Sperinshille WERC abundant, and the annials Munselies often seen and beard. The town of Fordsburg is quite a pleasant lettle frontier village, infested by rowdies and Chinamen. Heere we met last. Williams again. Horn Fordsburg to caruf (3 miles) nothing of interest vas seen. He only Manunals seen to day Lesert and Northern Jackass Hears, Wood Ratzans tracks of some opicies of Decrubility a guery.

Brids. - The ord speaks sien were Dage Florashers

Brook When, Gogger headed Shrike (van exembitorides),

Nestern Lrass Finish, Intermediale White-enough Spairous,

Brown's Sharrow, Black-throated Sparrow, Freen-tailed

Jowhee, Western Weadow Lank, Scottes Oriole, Brewer's

Sharrow Blackbird, American Raven, White-weeked

Raven, Mexican Shore Lark, Lexan Sapineker, Red-tail

Howk (B. Caturus), Mourning Sove, Sealed Quail and Hu Killder, the last near Fordsburgt. The White Hop

is here more abundant than lithesto; but it is ubiquitous. Cur cami was ill-chosen, and arrangements about

reatering badly fuddled up. The wind and deest very announce

Marched to Separt, 17 miles (20 from Fordsburg).

arriving larly in the day, as we started at daylight. The first flow miles was level grassy plane, succeeded by a broad both of sage brush and other bushes. Then we assended gradually the yest of the march; the country asser meanly all the way, and Carpeted with putted flowers. Two small pollesnakes were Kelled. The Species is different from any I have seen in arrowa. They are invariable small (2 feet) and dark with fow outtles. Misages were seen to-day for the first to the left of the brail, while assending the little, a hake appeared to hie, out of which the mountain peace arose and assumed strange forms.

Marumals - Plenty of holes supposed by us to be Badger's burrows, were seen. Coyolis, antelofy,

Wood Kat, Northern Gack Rabbit and Southern

Prester God as seen were Sage Thrasher, Mockingbird, White-Munded Shrike, Intermediate White-erowned Sparrow, Western Chipping Sparrow, Western Grass Finish, Brewer's Sparrow, Black throated Sparrow, Lank Bunting, Melow-headed Blackbird, Western Meadour Fark, Orrwer's Blackbird, American Rave, White-necked Raven, and Mourning Sover The White-necked Raven, Suggest Me Radroad and is grite tame. Both species Gollow the command to hick up the Good they down.

Marched to Lage, New Hurier, 20 miles. Reveille at 3.30 a.m. Recenced camp at 11 velock, a.m. The country a sloping, grassy plain, with occasional soapweeds and official trained and Mountains as usual on all sides mit being few Bird, were seen. Interop signs everywhere abundant. Their abundant fracks show that they have been present in large vands. Deer tracks were also seen. Badger's burrows were memorous. Northern Jack Rabbits were seen. The and Birds seen were: bhistimet-colland Dangspur, Western Frass Fince, Mestern Gellow-wriged Sparrow, klay-troops Sparrow, Brewer's Sparrow; Sark Burting, Western Madam Lark, Porewer's Sparrow; Park Burting, Western Madam Lark, Porewer's Blackbird, White-necked Raven, Mourn-ing thore and Killder Plover. The Celay-colored Sparrow (Spizella pallida) was taken and observed for the

Reville at 3.30 a.m. Plest camp at 4.45 o'clock, and marched to camp one mile East of Dening, New Mexico, the terminus of my journey, arriving there at cleven o'clock, a. 74. Distance 2/ miles (20 to Dening). The route, as for several days past, lay Through a wide the prairie valley with mountains on either

first time in my own experience.

side. Some isidated hears and neverds were Messed at no great distance which were perfectly barren and desolate, although there was a little more regitation - Sharish bakenets etc, - along their bases No shoutberry execut stanted mesquites; and most of the lind Passeres. a handsome male specimen of Cassing Finish was shot. The surgular, insect like song of the Western Yellow-uniged Sharrow-was heard on all sides; but they were'se hard to see in the long grass, and so hard to Slush as they ran mouse-like through the grass, Atat none nere Taken, as we had little truete delan, bruic obliged to side within sight of the column. Numbers of Hermed Lads

were found in the loose soil coound Denning. Thrusbell wangled together, and grow specimen prepared as skins. Not far from Lage of flushed a Mestern Meadow Last from its next, which has built like the Eastern I tumella magna's. The nest contained Three lygs. preserved and transported paper home.

above is a sectional view of the covered next, built mia, some left of yelow poppies.

In campat Sening. Windy and dusty.

In comp at Deminey. West hunting in the vicinity of tour with Dr. Clendenin. Denning is brut nich Sundy, durry Julin. The country around is larren and unproductive. There is Scarcely any grass. Wheden sized mesquites and sugetnesh the only shrubbery. There are no trees in the town, which is as muttraction in the daytion as it is toosterous and licentions at night. It is, in short, quite typical of there westobied border towns. We found a pleasant

Salvon, lower, and procured some Irozen custard. which was very refreshing after our diesty trans ne the high wind. After making some hurchases, we returned to our tent, while wie forum occupations covered with dust one of the Alahaharing looseled and brushed a fick of five out over our bedding and boggage. With our tent banked white Clist we found it close and diagreeable enough, While outside it was still arre. The out Migranials & seen were Cayotes, Fort Themas Sperior philes and Northern Jackass Heares, of which latter I procured a finale specimen having a singular deformity of the skull with accompanying distortion of the teeth The brids seen were. Mocking filet, Crissal Thrasher, Pileolated Warbler, White - sumped Shrike, Western Hass Hench, on termediate White-crowned Sparrow, Branzis Sparrow, Black-Throated Sparrow, Hrazu-tailed Lowice, Brauzi's Blackbrid, Anicrean Kaven, Milite-rucked Raven, Ash- throated Flyeatcher, Sparrow Hank and Jurkey Buzzard. The Specimens preserved were: am Jack Rabbit, 2 crisial Thrashers, I Ash-turnated Filyeateler, I Delcolated Warbler, 1 Fran-tailed Frutue, 3 Brauer's Sparrous and

/ Black: Morated Spairow. Folal, 10.

In Early at Zening all day. The Doctor and Ilad intended to derive over to old Fort Cenning, but a Shorible dewt-stone prevailed all day and night. "Unable to leave camp. Survai tents were blown aous among other our russ tent. Those officers whose tents were down congregated his the donnecles of Their more fortunate commades. Our tent was packed all day; and every one was good natured and jolly newspite of mushape and discomforts The light wagon's had to be lariatted down to the ground. Knined a fack Rabbit, horned toad and mine brides.

Still in camp at Feming, waiting for the arrival of the 11 = " (wairy In the morning wet wind hunting towned the Southern Loothells, Walked all the way around the town of Benning. The towners brief or the supposed underground course of the Miniber River. a belt of mesquites marks its course. In the range north of Denning rises look's Peak. Behing a smaller hear to the right, destant about 15 miles is old Fort Cinning quisioned by a handful of soldiers, commanded by a Fintenant.

The AUth learning cornered at 3 o'clock P. Zu.

The 3rd Cavalry lift sening in route for Jexas at emrise. I fade Law well to Mis Russell and the leaptain, Dr. Colondannin and Froth "K" of the 3rd.

On camp all day with the 10th Cavalry.

Weather a trible less cold, dusty and disagrander. dealed with leapt. J. a. Baldwin whom Mis. leapt. Milliam at Dening, and met Jilre. Seaft. Smither there.

2. April 24th.

Marched From Dening to Hage, New Mexico, 21 miles (20 from Dening). The lehaplain whom I sinted splot from Dening. The lehaplain whom I show the splot from Sening. Were seen whom Dening. The only brid of Special reterest was a special of Penedia misches honeardi which I shot mear Dage. The country a wide valley, with a few low mesquites just misolding Muir-leaves. Mount first six or eight mices. In day was calmand pleasant from or either hand, and good grass ofter the first six or eight mices. In day was calmand pleasant from Jones for with cedar posts, were a lot of Doversand Mellow-headed Blackbirds, which species we also fellow-headed Blackbirds, which species we also saw at Sensing. The Blackbirds, notes are unique

and larring the in car to Barn Suallow (Herundo erytheoriastra), The rode The rough the frame, a (Directs Sein in the number of theorias Spennophilles were sein in the number of the mounds.

As any orders were to rede with the Red Gross am-- bulance, l'étueen the column and wagon irain, I was deinged with dest, and had no opportunity for observation. (pair of the small dank-colored Wattlesnakes 11716 lying at the entrance of their burrow copulating, within a good of the trail over diffich the whole twelve Troops had rist passed. I shot both at once. The country is grasse, with bear grass, Spanish boyouts und a few Seattend Casti. " could see that This vegeta-- two incurred intundance towards the goothiles littuen merre a museu morand with cedars, fruit descent--able on the distance. The murages were yet distinct and our our. Marsher with Atue water Shining Through the grass and large lakes seemed to exect at a little distance; and the foothills assumed fantastic, shaper ouring the love part of other bases Vbeing abscilled. Below is chow the apparagee.

A releage of Prairie Logar and Coul, was
hard. The drys wise basking still althought the
intrise column had sust hassed. I fired at two
owls but did not kill either. Being obliged to
ride with the combulance, I could not stay
belind to hunt them sony longer.
Me worked to Separ, 20 miles.

Merched to Totalebura, 20 miles.

He broad slain between soothick with higher mountains rising layoned, forwards the South were the lethinical man, etvered with snow. He chants and trills of leasen in Sarrow (Pencaca cassini) enlurined the march, but I was compelled to side with the Column and could obtain none of them. It fordsburg, a Woodhouse's Day, the first ocen since March, particle our my ambulance, in camp, flying about among the tent shores and soldiers in a daged sort of way, was mothers and soldiers in a daged sort of way, was mothers and soldiers in form one mountainto another. It is the only one seen on our march, east of the Agua Aria.

Morel 27th. Marched to Stein's Past, 20 miles. After travelling a few miles, we exposed a low range of Goothille, clothed with greasewood and a few astricted continete, some of which for the frist time, going, thestigand contained nesting) of the leaster Wese. Youra Spirite Viller 11826 1624 abundant, and their hisping white was constantly heard as we were passing. A Vileolated Warther (Myrodioxie, jusillus hileolatus) was seen here; and Mockingburds were allundant, The Oxioles that we saw here John going. lastward were perhais Srightened out of the way by the passing column. A lectton-tuil (Lepus Sellvaticus arizonae) was shot and preserved. Atthetheth Small it was an adu t male its testicles bring langely developed, After crossing The rurye, a wide valley interposes between it and the range of fills in advance, of which Stein's Plak in the highest point, and situate just purth of the Passand S. Pa. Rudroad. This wide talky has exherent grase, among the roots of which are a quantity of small unalit shells of which specimens ins wellettel.

hounded only by the wengen line to the rooth, and totally destitute of regitation. It is smooth and level but himself and level but rively assimed, and so hard that a boose searcely leaves an invisint in hassing. This area is served naive wide. The earth is pale buff. In the younger Land which are tracking but whose af Mexican Shore Land which are best and there are I had no offertuint to search for. Mostling frids and Sparrows of several species were abundant and singing; but my duties prevented me from hunting for specimens. I was glad to build time to hearing name rather.

MM 28 =. Marched to San Simon trizona, 14 miles. After my tent was struck, I hunted about camp. Atjaves (due cal), Spanish bayonet, bear grass and low mesquites, together with flowering annuals and good grass, constituted the salient Cloral Leatures of the place. Mourning fores were very abundant. A "White-top" Quail (Callibella Squamata) Max crypio hardly, nottering a single call-note. Then it flew, and alighted whom the tof of a tall dry stalk of the nuscal, and began culting a bi-siglabic note very like the common cry of the domestic Gunca-hear. I Cabbits were very afound dut in the Pass. It summer of leotton-tails (Lepus Sylvaticus arrionai) si en 2cen to enter burrows which I believe they execute for Meruselves, as also believe the Eastern Fray Rabeit I Topus septrations septrations does, although this is Contrary to the generally received opinion of naturalists. (Juma Spermophiles were abundant. of Folden Eagles, the only ones seen on the try Time circling about; and it is quite probable that they breed there Wock Woens have young flying

7 mil 29 = 1. Marched 16 miles to Boure Station Arrzona. Grad asted larly with Eapt. J. A. Baldurn, and Athen walked back & miles towards Steins Pass to a Mater hale where I had seen some hellders When marchy, and throught I might find some brids of value to are, as that is the only water in the orgion, and is surrounded by long grass. On my may there I saw a Mexican Those Lask (Eremoltila alpestris chrysolaema) singing its love song whom the to's of a bush! I sound the shallow hool, now nearly dry, and front it a water Course where Doves were Eongregated in large multik about the small quantity of water, which was strongly cukaline. The Killdens Were there also, and the Jan taken and preserved. I returned to camp just in time to march with the Red Cross amoulance accord. A order. Marched to Bowir Stationand Campid. - une nests in mesquites use accaseorally deen lout there was no opportunit, for examining them Wests of theactus Worn and Gellow-headed Fit were multius, although there was o earely any Cactus forthe former to build in. The greaswood was rank and regularly disposed in fines or nows in some places, like a currant patel. Targe Sizards were very abundant. By the way, Duall Isten Sizards were often seen in the grass wi New Mexico. AMpril 30 th.

In Camp at Bowie Station. We had miter of the whole regiment this morning, after which I got hunting, and list at eleven o'clock, am water disputching my mountain hapers and walked over to the Southern football, achieve of some half closen miles. In a ravine of these footballs af the Chiricahua Monentains, which I will will

many be in that my supply of cartridges loaded with " fine shot had bein exhausted on the long to this spot, and i had to regret being unable to proceed Specimums of such binds ax Costa's Aumining bird, Trico licenios, and several other desirable species The Fray Wineo (is incimor, Cours.) sand loud! and sweet. They also mare a loud call-note, and are rather stry. L'évit's Criole (Veteus parisonen) More numerous and doutelless had neste in the meints. Vileolaled Warblers, Intermediate White-crowned Stanons. Valanding's (Frezentailed) and Caron Fourtices and Crissal formed in an arroyo was the footbulls, contained 12 newly-hatched iforms; and one 199; and young of the same species were on writer, as were also young Western Meadon Larks. a nuite from the Loothill, near a dry arroyo, d'almost trod whom a setting Simale Scaled Quail, that inturred off Arten the sicit et great speed. The eggs, turler in muniter, were but slightly micutated and were brought vale home to for Verde. In nest was in the centre of a tust of grass; herfeetly circular, limed with sinth-- ow of its our species, surrounded Lay pretty yellow noppies, and . c'oce beside a cactus (circus I training handsome ord flowers: The parent did not veturn during the quarter of an hour that " waited for her. Then I followed her and got within a few feet of her, but the van to Dir fily and hid so deftly that she got mashy out of pange and then Stew: I mussed. Liant leactus mens were breeding plentifully. Some young were on wrig. One set of 3 fresh eggs was taken with the harent. Celtier nuste were not yet completel. The nests were kined with feather, many of both Diccies of Luail (Lophortyx gambili and Kallehopla Squamata), Deottis Orice, Kond-Sunner and Mourning For.

Mourning Warbiers (marginitrans) and Hellow breasted whats vere memorous along some Small Att can a flowing from the softiers; and, in fact, priam, birds 11 5re 7 my common there especially Tover autolle Levail. Returning to leave i one other "Whate-top Quail was seen in a grassy blace, returning to carnel It sail in a mesante, and allowed me to get to within a few Seet of it. on the Toothills are cedars, oaks barbertes. thackberries and other green bushes, besides musiquities along their bases. The leastur Wirens nestled for the most hart in oursquites. One nest was built in la tall Sirahured and others in Juccas. Arknivay and Atth- throated Fly catchers were numerous, The mountains are broken (traf?) weks, very rugged and hard to climb. The Striped-backed Homed Foat, like Those skinned at Denning, New Muxico, was captured. Jack Rabbits half was taken. He notes compuse hant somewhat like Spizelia musilla, ending in a trill. I returned to camp much Latigned jist his time to blow myleggs bredore" Surgen v call "; after dispatching which I had a nah before during We had music by the band as usual during the working Will probably remain in camp here to-morrow awaiting the arrival of recruits and knowles. Macgillivray's Warbier and lerissal Thrasher were found mear here on the dry Main. Burrowing Owls liverin burrows of the tot funda Derud Miles. The Verde Long-triled Figured is conclina here and all the way to Stein's Jass.

Marched to Willer, 124 miles. We were glad to leave nine companies of the 10th, and proceed with the Atrice remaining companies, and the camp followers properly belonging thereto. From Strung, New Mexico, to Bowir Station aryona, the command was accompany by fifty Children and nearly as many women, which

compilinent gare me, the only Mudical & Licer, a great abundance of work. Golonel Frierson hereafter proceeded by rail meeting us at the Stations. Twas at last free to vide independantly of the Command and study the physical Gratures of the country more closely and aring lewine. The last thend of the days vide were over a new route, many along the & Pa Rainrad. When marching to Dening, We let the Railroad at Freson, and did not reachet again until we got to Railroad Pass, near Bourie Sta-Thon, Returning, WE followed the Railroad to Benson, and there to Muountain Spring in one days march, so that the distance from Railroad Pass to Mountain by war, of the Railroad and Benson was all new country to me, The rest of the veture route was the same as that going.

Between Railroad Pass and Willer a Brainic Dog" village was haved. I shot one for hut it could not be yet out of the burrow atthough I could be it Rieking within; but I recured one of feveral Quele Lound Then, and wounded another at Hellox, but it escaped, wriged, who the burrow. Hey run single, when it is indeed and drie intente the nuarist hole Mexican Shore Larks are abundant, and breeding a your in first plumaye complete was latter. Education Trick (Penerea Callina) was chauting at various places along the way. One flock of Remnamon feal seew over our cann at Bours Station. There is still proof on the highest peaks on estimate in there it is

Me could see the Point of Mountain Where the large Prairie Dog town lies, and I think that those found along the Railroad are a part of the Dame colony in which case it covers are aven greater and than I at first supposed. The energy of their barking and accompanying boboning motion of their barking and accompanying

Marched to Fragoon Summit, 20 miles. A hird grassy plane or mairie with an alkalar flat destitut of orgetation and several inites wide. Then we reached the foothing, where a herd of Antelope were Level whom by the soldiers, but now Killed. Fue last mile was all n/ a gentle slope to the summit of the pass, where a herd of Mule Deer were seen in the cedar-clad forthills to the south. The range of moun-- tams south of us is well wooded above a certain elevation, probably with Junes, while the foothings ne more or less clothed with cedars! It began to rain ut dark and continued hard until midnight. I had the Steward (Werner) make down his bed in huy tent as the had neither lent nor carnas; and the O. Combulance was felled with hates belonging to led Brisson. Near Gragoon Summit I found a dead Jong-land, out. There are a few ment flowers here. The gew Durrowing Owls seen were Mirouly things of any great interest seen an route. Hugher very sty. Would they away from their burous when lors approached, flying several trues and fually returning to the burrow whence they slarted and enter it, Their flight is low, allemately fluttering and soarning. They retter a Gall-note when flushed on Fort Juma? Spermophiles had formed a large colonier lorst of the alkalai disert.

May 32. Meadore a.,

Darose larly and breakfasted with leaptain Baldum

and then started out on foot northwayd, and soon

found a village of Crawie Fogs and Outs among

the rolling grassy slopes, and with much trouble

succeeded in Killing a handsome male. A

botton-tail Lepus sylvations arigonae) in the village

and in the entrance of its burrow too. I suspect that

they alig wurrour for themselver; and I know that their live in time. I roche with kaptain Balcherin a few mich then follourd an arroyo, a long which were Some Walnut and ofther trees and & houbbery, Birds 11818 abundant, Mock mig birds were menurous all the way, I chimbed to the mest of leassin, Kingbrid, when the Travente made a great outery overtead. a Moeker, from the top of a mesquite from the bank, similated their destressed cries her siether Kerissal Thrashers were very abundant, time ; but Palmero Elivasher na mot sein mitil it reacher Benson. Livo nests of leasure King fried (Lyronnus vocideran) were found. The Seist examined contained four fresh eggs. but I lost my foothold when wearly to the bottom of the tree and broke all of the 1995. The record next Contained a single (cgg. Both nests were built in walnuts. Vipilo Juscus microleticus. a mest afthe batton Towhere was found, Containing Jour young, It was built in a mesquite bush three Nect Isom the Ground' The nest was comiosed of grass and wird-statile. A 2nd next conducied two (2) young and an addled egg, which latter was blown easily and presented. It was brief upon a grape-vine six feet from the ground, and in structure was similar to the guist, Organing loved of the year was short. It flew well. Was afterward Nort out of my pocket. Dany tila saxatilis. - The loud chattering of flocks of White - Tirroated Sirift attracted my attention. I got on the lighest ground conecaled myself beneath Some greaser ood bulles, and soon had a good shot, Killing a fine male. When Iskined it, the Esticles were found to be aromond, masuring 9x20 m. m. Heooded and Scott's Orioles were Singing. Hummingpirds were minerous, but those difficultied were all of our Their - Froeliles aixandri. Lambel's Luail was cebrundant; but Lordy sow one small flock of

Dealed Levail, one of which & Shot. Their great speed in running and strong the of flight time again noticed. Dayornis sayi had accorded out a sent hole, or sound one whence a stone had been dishodged, in the side of a clas bank having a marrow seit of an entrance like this the showing only a I w straws sticking out I = = - the orifice. The Opicus was to-day more abundant than lisewhere on Tipilo chlorums was abundant, and probably Ore Eding Oue Soek of audubon's Wartless was seen. About Lour miles west of Dragoon Sunument a single Hila Woodpecker (Centurus mopygrains) was seen It was calling Custiles and pounding our telegraph-pole after another until it got tired of Keeping ahead of me and flow of bloomeside and let Mia bush. Theonly one seen today. I followed the Kailward and Out several Ends which shortened any march by several mules Major Me Tellan took a wrong road and made the march loriger by a dozen miles. Accordingly I got to Benson several hours ahead at the Troops, and huntid as much as I killed along the way. Benson is a mining town, less in size than Globe luty. They were houng &cher to-night at the smelter. The bullion was filed up in vars sex feet. Augh, Her Rio San Pedro flows Horough the town. a Roadrummer and Calmer's Thrasher were the only brides of suterest Seen along it. Several very handsome Vinia Indian jirls visited our camp. They made faces at all of the onen who attempted to converse with them. Their hands, feet arms and legs are handsomely Somed. They were sather short in statuse, and Groad and muscular. The colored Doldies went our Hown and Gooted and sang all night. Distance marched, 20 miles.

May 4th Marched to Mountain Spring/8 Miles In Just Acut nuli from Benever, where us left ou Railroad, Mas ni itu valley of the San Pedro, thence we upon in platea When according a muniber of birds were seen but nothing new. The slope is clothed hir mesquiter Jackale Heares and surval spices of birds wire. On the rolling piattean, broken by deep gulleys, was no Shrubbery, but good grass in which were large mounds of the Andreway streetabilis, whom which Mexican Snore Faciles habituarily set to Sing them love songs, and probably also to sing caten ants. There I heard Coturniculus passerinus perpallidus Singing its insect-like ditty! After crossing the Railroad we came to oronard-like wear of thes--quiter, many of turn 25 to 30 feet high, in which were found segrial nearly completed nests of sunaunus vertidales. A Goodruminers was found ni a musquite 4 1/2 feet above the around. It dontained two fresh Eggs. Un other next was found ma nusquite 15 Seet from the ground I theird was six feet from the ground (ell of their looked about like armage mests of the Herron, with the add--ition of a little grass stence of plants and Cow manure Som lening. Wear Mountain Spring I seemed 5 marly fresh eggs of the Moestingbrid from a nest ni a box-claser tree. Of Mountain Spring a clutch of 2 eggs of Phainohopia miteres was taken from a walnut true, The male bird was sitting on the nest when it was discovered. A large Llock of Turkey Bussards roosts at Mountain Spring where then were seen going to soost in the lane Cottonwoods. at dusk I shot a bat, when they all Vore and carul stimming over the cottonwood-tops in the turlight with wend effet, their wings beating

the cur fire a morning sound like a suarme of flees. Mite-uniged Loves (Muspelia lenco iteme) will coming mourhally in every cottonwood, and mumbers down tot erenishing in the Stream. Heirevening chrangles was drawk and they orticed to good for the night long before the Divourning Dove retired, choing occasionally until dusk, a for Which they were quest, while yet the Mouring Doc'Ed were Whistling through the air in large mundbers above the swampy pool at which hundreds were still drnikning, perition a few yards of our tents. They wort in the cottonwoods, willows and mesquites atmight A new first (Vapranga austria cooferi) Was found on the stram a few miles from Mountain Spring, in Some cottonwoods. Numbers of the young of the year Yellow headed Lits and Cactor Morenes Die re seen Alyrig Melopelia lencoptura. The brantiful White-winged Dove was made a special object of search on this trip unt, exemping a single one seen at Toot Visde last summe o-one were seen until to-day (See note above), as I sat at dinner with the leaptain, betreath the ofreading arms of a lung cottonwood, the copt. spoke of some red birds that he had noticed in the collowoods about our camp before I arrived. I glanced up into the true and san-a White-wriged Fore settle in the truto! above us, and begin its mournful cooing. Dozens of Then were seen before we concluded the meal, after which I took up my gun and quelly had there of Mu brantifu birds at my feet, admirme their brantiful I umage. When courting hi the tree-tops they till up their tails with a brandeshing movement. The are quite gentle, prepring to alteriff concialment in An foliage to flight; and its appearance is peculiarly juilte and, meat and beautiful. Detween the point where or trail crosses the

Vortoise Gerrapene Spring of ricked who Bax Foldies had crueled with a carbine wuti. Noturtustand - vig this inversection o' skrived and hereserved the specinien. a was told that they are fond of slaying between the ties along the Rails and any purione-- ant was of the obinion that this is because they are attracted by the immercial sound paraduced by the suging Anetal when trains are passing even when at a distance of several miles; but the more buballe reason Der their occurrence along the track is, the obstruction to havel which the latters offers, the Track doubtless from an expectual barrier to then and causing their to seek to has beneath it, thereter try, at mair Fair a much larger tuitle) · probably a adisferent opened several steemens A VERY large Stender Figurd was shot Mar Mountain Spring When shot its tail offered to be bright gover, but uten fricked in it was dull in ector without any green Do they Change colors instantaneously?

Parched 18 miles to fort Sowell, a.S. I arose and brightful early, and then set out to explore the little stream at Mountain Spring which I had not hitherto had an apportunity of doing. As soon as my Mings were packed Islanted up the stream, among the cottonwoods, hox Alders, walnut and ash. The islant of the country in all this region, estecially that here, along the twenty in all this region, where the Cooper, Langer was latter, and in short, that of the Cooper, Langer was latter, and in short, that of the last in your passed there before march, has changed much since we passed there before march, has changed much since we passed there before march, has changed much since we passed there before

The leaves on the musquite and other trees, some the cotton words white and other trees, some the charge to the country, covering up need that before Was bare and reministing. The the belt of timber along the stream are grape unit growing whom the Trees. The cottonwoods we enormous, but none so large as that on the itomo. Fria which measured. 34 Leit are girthe four Sect above the ground. Whiteworkged Doirs wire courtnic in the cottonwoods, Spiding This bandsome tails or jetting their sproand as the sat beside their mate, cooning loudly. Several nest of Theo pusilius very found. In was carried to cam; Ant the four eggs which it contained were too far menbalid for preservation. Verched whom a king willow top was a beautiful new Heimminging House laterostris which was fortunately secured. Il mest of Frochile alexandri with the frarent bird was Latte near los, from a grape- 27 nes. Vermiliais Thy catchere wen't Southering warrand toward the Zenith showing their neh plumage to advantage. The What whited, and moded each other, and displyed Their usual accomplishents of voice and a crobatic Lent. Gila and Lewis's Woodpellers, Malhertr's Flickers Vand Lurkey Buzzaras were very abundant, as were many other birds. I was abliged to burry away long beyor? I had muestigated the shot to my latisfaction. Un keaving the Make, some fine forests of That Caste mure haved when the conseal hills bordering the has, willy hear (Quentia) and red-flowering asbores and Cati, and "corral - wood" (Honguera oplandens) brang red flowers also. leadles Worms and Alicir young Lamilies were numerous. I kaw the oleming circle of first time. The gran-baried acada or Palo - Fordi (Par= the an exquirity reaction small spreading the

nou rader unta cheran rosstrus. a fila cionetto (Heloderma suspectumber) was sein in the Trail and quicking calitated, I set my gen wion its hack and bricked it sign. It made a louid blowring noise, and cruitted a sungent podor, which is Can only conviau to that of a wash in quality but whoily different, feedbar and disquesting. I Annetweed its medicalla with a pen-Knife and carried it to care in my sadde pocket. on the coming I studied it in Dr. Heopkins quarters This ig the suit J'C'Er saw. The markings fade when the Skin aries. They are nadsome when living. The black has a hurfle lutter, and the light marks are long is reddish - orange. They don't out their Tongues Eike scrients and attempt the bite. Their skins are thick and tough, and closely adversent to the glesh, being very deficult to vernors. The excluton is exceedinly strong. Thing can easily to overtaken when attempting to escale by running. "White-to!" Luails were numerous. I shot two riving mear Together, on the wring, but one could not be recovered. Then I shot a hair at

two viving near Together, on the wring but one could not be recovered. Then I shoot a pair at once on the ground, attracted by Their loud cries I saw two makes fighting herech for a female. I shoot two of them with one harrel whom the ground, and the remaining one on the wring, as the varied, with the other. In a few fardings a clase where we can leafe St. Ineas Cardinale when going I also found a pair to day, and short the female on the wring, but did not find them to their it, and oney preserved the skull. It mustered White-wright dores were seen about this place. There are come received the skull. It mustered the place, and doubted water, although I did cost visit hum. A doubted water, although I did cost visit hum.

evas built in a range ! cond-posited red-glowered eactus, beside an old meet of the same species, which contained his opening contained his opening contained had - colored quills like those of young louckoos.

A Scott's Orides quest ains dound suspende (
beneath the dependent leaves of a large and tail
soapweed bruit of the white Ame sureads of this
flant, lived with cottony debrit - an exquisite Structure
The parent into short as she bleve grow the past,
which couldined four eggs, much intended

Hu arish Egg of Butto forealis calurus (hed-tail)
was laken from a riest in a Micsgritte-tree, 15 get
from the ground, built strong: of oticks, lined
with some grace and wird-slatiks. Concavity, considerable
Egg, John "ill camped on the Rillito Creek a
mile above fort Govell. Spent the expension with
Fr. and Mis. Hopking, looking at specimies of
brids which the Dr. had taken during my absence,
and lailing garrison gossil. What and Mocking him,
sang all might, and the purling of the atrem close
bride my tent sounded pleasantly.

Inder 6 =:
In camp at Rillito leverk near fort Fowell. Rode to
Fueson with Capt Baldwin and Dr. Hopkins in the
Moming. In the little hark through which shows
the Santa lever River in the midst of lown were
Jose Lewis Woodpeller.

Small fruits were abundant and cheat in Jucson Spent the afternoon in my tent writing of ian papers and skinning brids. leooper's Janagers there quite minurous and requently alighted whom some dry twig or collonwood to marth water. It Hopking tills me that they are breeding in the Part of Fort Lowell. He showed me a beautiful male that he shot at the mussion of San Xavier, is

Them whening along the edge of the Reilita in front of my tent, while I at within skinning busies and making out my official planers.

Marched 26 miles to Rillito Station. After packing my ramigs, i made a harty examination of the Rillier mi in iterrite d'our casul. Large collouwoods Night un abundance a litelaure, a gur vex cloters. and ash, were the principal trees, men litere gestooned with grati-truck in suit Homand gragiant. Oseriain were the reactions and gragmant Daluras and Elders also in bloom. The ted of the Stream is broad and randy, the itator thank narrow and tostuous. The gand was hard and a lite. The Cooper's Tanagers (Imanga aestiva cooperi) retter a spasmodie, impulsier Ke-dick, Ke-dick" somude me of some of the Hin; calchers. Dr. Googer Days That 1 this call in the language of the historiair Fromains means "Come Shore of Come here! They it Ere Storing in hairs I shot a rain at the same Shot in a willow. They Den to priver them to collowoods, they like to alight in a low situation on the tours a clead eight in a low situation on eighterowelds a clead eighter . A couple of Jemales were taken in addition to the pair, but on escaped, faring teen slightly wounded. lectoral strasson sent for mic, and I expected some unfriedly demonstration; but he chook me Riginaly by the hand and offered to serve one when the reached headquarters and to retempt to send hansportation for my effects down from Whifte. His order compelling me to orde with the seagon brain for several hundred mulie was endently a

Koad Kumurs are numerous about Fowell. The

pource of uneasuress to him.

The sich Spierner I sout after searing the Post wire! a gorgeous male Saint Lucas Ceardinal. Hu Gerrale was shy and establed.

A mest di Harpovingnehus Cenercus l'endirei pras fonno, containune viture eggs revietty fres, built in la grafi-vini, orestranging a sinail tree, beside Cillito breek. One was accidentally conslud after

Falling Host Verde in safety.

Ash throated Flycatchers were abundant and I chook several hoping to find Mynarchus cooleri which is said to brazed abundantly about Fowers: but I have in a old meequite stimp; and both old kinds shot. If the leaving the Rillito a mexicans for farm was passed and around an other gander were the largest mesquites I have seen in anyone, wisless some of those mear Mogarz. A Malberty's Flictler was shot.

On the ascegnia near Tueson I shot a. Duck Hank (Falco peregrinis nations), and found Miainopepla pintens, Mellow-headed Fits, Fuery Warther; and many other brids exceedingly abundant among the Hall mesquites. a mest containing five Eggs of the White-rumped Shrike was taken and White-wriged Loves ever found in the musquite, one of which I shot. I family of Texan Cardurals (Dombuloxia Dimata) was found mear Rellito Station and an adult Jemale secured. The male rettered a loud note of the syllables, but was too plug to like secured. The young one was shot another very but fell in a lunge wood-file wear the Railroad and could not be got at. The district traversed to day is a splendid Collecting ground. The Texan Cardwal das also seen mear camp Luttle make was killed. Comment flax (Vullyor mycrotis) beside the sailroad and looked of fixedly at his as & passed by pearend 15 miles to Red Rock The country, level, with greasewood, Lagebrush, mesquite and grant Easti. The enacles casti were abundant. Unust of Ah Biark carped Linateateher (Poisotila melanura) was jound in the Look of a greatewood and the egg2 (5) and Semale farent (No. 3,994) secured with next Flamilies of Bendice and Palmer's Elipashers were everywhere, seen, as were those of the Cactus Wren, Black-capped Lahateuteller and Victor-hended Lit. The Meyrean Hear (Lehus Callotis Caliotis) was more abundant than I ever saw it elsewhere on the mand At many as six will seen running together, and I Killed two adults at one Shot. I brought Two of the Juiest specimens in to care, on my Maddle (bad fadod), out only found their to skin orumber of these Hares were shot both young and old. I regretted not having time to eximpriore of them I again some of them to a suldier, who fromsed to Keep the skule for me but nighted to do so. When running they leap high in front larger Atten Tehus texearins while their colors perve at once to distinguish them at any distance "Many of them are very stry, purming long before you i an get withe rifle range, while others are as tance as Ala Common Hack. The soldier killed dozens of them on the march. When about 5 miles from Red Rock, a sawa

When about 5 miles from Red Rock, I saw a very large nest in an enormous grant Cactus, and spor it a brid, Having seen a number of this nests in each. I was anknown to descover the brid that brilds them. Managing to get around behind the large branches of the cactus, I rept up to within a few yards of the nest, and shot the

old Hank (Suter boreaus cancins). The ice terms frais in color, especially the old clarities of the tail; but a couple of new rections about half Grown out siere sinet aander. A colored voldeir came we and I asked him it the whought there was any thing in the mest. HE replied. "Louit Know, Sale, but I re ton dar is "; and then Dassed him if he would mind dricking up to the next, intending the question as a ruel of picasantry. The riest was an enormous pile of stills in the axils of two lunge arms of the grant I Sohmara. The truik was as large around as a hogsbead; the next 15 fut from the ground, and In Solinara armed with Song Dine, as Ahavinas mudles. To my astonistement the afficiel to Clinib ask ; and asked me to give knin a boost, lowel. I did heartily, enablering him to thoust his fringers into an owes or woodpecker's hole and draw huiself as to the lowest bound in which was a hole would gave him a hold and enabled him to climb whom the lowest her of branches and so reach the hest : VE threw down two down young in Ducession and afterwards an uddled early not much larger Than a wine, considerably clongated and measly Mully rounded at the two ends. It could have tre-"blown" successfully, but chanced to be accidentally Drushed before I reached camp. The young don't ate areat greedily and one of the lived beveral day. before I found time to Kill and skin it The Amale francut was carried along for sessaral days, but I never found term to kkin it Howas very palied, probably due to fading, as how new tail-feathers were gulte dark red but I remember noting that the tail was flam and it man have been the leafer Samit Gueus Red Lail. Ou Antelope (Fad) ws Shot by a soldier in "The" Troop.

1/1ay 9 th. Martned 14 miles to dieacho Station, Armona. Animber of inventure specimens of Black-capie. Gratcate hers livere shot, and the old one are abundant. All of our notes of Munitions Andeateners Colioptela (ilumitea) fir o'cably relate to semales or younged, tras species; and I guestion the gununciess of the other species. 2th usual, the leader Wrens, Palmer's + Bendire's Financiest, Mocking brid, Fila Woodpiekers, Macherbe's Alieker, Carolina Sore, and Samber's Quail were characteristic spieces. Hu Scaled Quail (Callifepla & gramata) was laken by Mr. Stephens may Picacher Station. Thricking bust The Alofina base of Preacho Plak would be a good locatity for them I hunted fattifully in viite of the unline heat. In a grass belied the Peak I was metoniced there was a spring, and very probably these Quails would thave been sound their as well as many other race and valuable species; but I had not twice to reach the spot, and some nothing of ition any where went of the organ baturare Mountain Spring and Fort Fourth Where they are abundant. At Hot Lough, on Upril 6th, Thead a note (and So did to Clendenin) so much like inat of Cityx mornionens that ive mented the breality over, hoping to find bulliple oquamata, Since Then I have! sem planty of Scaled Quail and tracis that it has Ortyx gray some on the rocky slove at the Jost of Prencho Peak, were some Fexan Highlawks (Whordeiles went pennis texensis), a spreament of which was secured. White-uniqued Dores coord mountails and a specimen was that whom the top of a soluara where it sat and sounded, its sad notes it the midst of a wreath of white flowers. U beautiful growth of blooming palo-verde or green-barled acacia

Ita based Suntanda, this primacle of rock, whom the walls of which the commocattus wishere stand boldly, out, each "technice" crowned with a circle of spector. Suitage. On the slope below are the Sohuaras (Cerens epiganteus) and white, deciduous caste Whintier Bigelovii), together with mader true each and pricity Law. Hen were dozens of Worthern Jackass Harris, chowing an wident choice of orredered in facorthe hill clopes, while Topus callotis caliotis (I believe the two openies are opening distinct!) may be seen whom the broad desert plan around in ignal abundance, but not seen at all in the hill-slotes. It is no unusual right, however, to see both species running at once whom the plain. They do not associate logether, however, Ugan Ath soldiers brought in closurs of them but " neglected to secure the skulls, blinking I would hour plents of apportunities later, which, however Leaving Preat to Peak with reluctance, without seling the alleged spring, I pursued my way to camp, much regrething the necessity that forced one to pass through this interesting organist rapidly as to permitonly a cursory examination of its nunicrous but Indden treasures in both Boilogy and Botanyin While in carry at Preache Station. I pursuaded Dr. Buzzard, the Regimental Weterenary Surgeon to Chop down some of the mhabited Johnans and try to secure some owls and young a nest of the Mexican Screek Owl and one of

Macherba o Thicker, There were four (4) young owns

one was also captured, but excaped before I saw her.

alive in my trunk protect after Torached Verde.

(Seeps asio trichopsis / in the west and the old

I stimud one of the Onla, and Kept the others

preserved, This was the driest young at the grains were and was fully plainteged althoughs the quies ware out grown out. I'm the morning the opinion the prince to rear its young later on the season. They were heard in this most, in Submaras all the way from Mountain thring he Burnels Bue, but none were seen on lining and, as nown of the Seasof Cath were cut down for the purpose of securing them, now were later in first plumage. Many young thekes were seen in word from the place to Big Bug when I saw and short the last litalherters) Theire. A street same for the last litalherters) Theirer.

Mu-ched 19 miles to leasa strande, Anzona. Several unmature Gendin Thrashers have AFFIR Short, Notin at a little distance, supposing they might be Le Contis Thraslers, but none were seen, although some were seen whom necoquite trees at a distance which were suspected of being Hasposluguelius redurins Secontei, but were too shy to be positively adentified Specimens of colaptes Obnisordes 1184 shot. Cue in a Opuntia Bigelovii maj titu Solmara un which was its most. In some kange spreading mercuite forming a compact your, and close to some tale soluaras were a family of Mexican Screek Unto (Scops usio tricholisis), sitting reparate upon (the tranches, drawn wi to their full hughet and blinking and snapping their outs " They were guest from the court, but too strong on wing to the captured, se I shot a couple and made of the others In another large spreading anesquete tree I saw a Ferrigmons inging Cert / Glancedurin Jerniquieum & Slining Menelly from branch to brade and shot it. It was an adust fai from bressing, lumage,

and in quet it have ever seen. The Sohnaras
are new his hoose, and transitive. The Gualentoters
Francies, heading worm, Black Mirrorted and Francis

Francies, Ash throated Filipeatchers, Arren-lailed Souther

Lank Finish Sward Combined, Raisen, Leven Nighthauk

Jexan Subscieker, Humaningbrid (Black-Elmined?), file

Moodfeeller, Mallerbe's Hlieker, Thispican Screech Curl,

Burrowing Owl, Ferringmont Pigning Owl, Sparrow Hawk

Vistem Red-tail, Mouring Sore, White-wriged Dove, and

Gambello Quail, were the principal bride seen a large

Bila minister was taken. It tried to site is more a strong odor; active

Harond 26 miles to Mariogia, our a level country broken by dut arroyor in place. A short distance from Marispa, I now at a lette distance what appeared to be some white rags on a Musquite bush; but rode carelessly up to within a few yards of them, when two beautiful Little Whote Egrets (Larzetta candidissima) Selevanny bison I could load my gun. I me eccled in short. one after they olighted, whom the wing, at ezzy long sange, and pursued the other our for & were hours It made a very conspicuous object, and could be seen at a distance of several mile. It flow pomewhat in At a dulction in which I was going, as I could see by the dust from the command. at length of gair My the chase, having arried in a best of magnificent mesquite timber, covered with harasile mustletor, and resounding with the notes of birds, Thomosefla witing was abundant. His is the suffored underground course Janta Cong River, I followed it nearly to Mario - pa, Lov after, I shot a brantiful specimen after Olive-sided Flycatelur (Contopus boreales). Several (putty Warblere - Magillinay 4+ Pileolatus - were enlive ming M. nesquites. When near Swest Water, I shot a young of the jear LeCoute's Flirasher, and near the same place sont a hair, and positively identified and secured their next

and titree Irush eggs. The Jemale were shot from, Ale mest, No. 74.0112: 4,010 6). They were observed his the bush. I then examined the nest and afterwards concealed. myself under a neighbering mesquite in a position. that was searcely supportable on account of the burning heat, of the white sand. The shark "whit" of the female Kept our apprised of her whereabouts, and, at length, when I was almost goasted, The flew to the misquite and almost numediately took her place whom her next. It churping Call from me guickly brought her to the to of the bush, where I snot her. With the male the case was different, It required a chase of an Mour to secure him. He would certainly have Escaped were it not for his persistence, in returning to from the next as often in lost right of His Slight was often convicioning the bushes and unpossible o follow, but when soarney whenard ruto a bush was usually deficiled. Its sharply renterated "whit" or quit " aiso serred to Keep track of ut length a Long wing-shot broke its way, and then I had a Chase whom the ground, shooting at it as I ran. Its dexterity in ourning and Inding among the seartened greasewoods was indrusable, but I at length took it, and was compelled to lie down whom the scorching Sand completely exhausted, with warry artery at its greatest tension and beating hand. I packed my Mecruin as soon as able, and resumed the saddice The first Wood Pewers were seen to-day - Contopus richardsoni White-uriged Dores were numerous. Or spenier was taken it supposed bild of the Santa Lerus. In the grove of large musquites six miles from Marieoha were man Formsiana Vanagers (Tyronga. Ludovierana) whose yorgious hule of red yellow and black glanced in and out of the mesquite forest, in which dumbers of White-wriged & over were mourning. U family of Maricopa Indians were sucarted beneath the

tills, and were cooking their Supper when I hassed A few Hearts's lehihmunks were that such between leasa France and Swest Water. Fort Juna Spennophilus Spennophilus tereticandus) were seen at sintervals, their existence trying patent to a casual traveller more by the presence of their burrous and their soft whistle whose source he will be apt to look for in rain. The three species al Hares (2. 2. 2. sylvaticus arijonae, callotis callotis et carlotis t frances) were represented, and these together with ore or two legotes (Eanis lations), like the only mainmals seen Western Fork Fuches, Intermediate White-evorage Spairous, Frewers Starrow Black-throated Sparrow, Free-tailed · Towher, Lark Frich, Cowbird Duard, Raven, ash-throater ippratcher Cliva-Sided Flycatcher, Western Wood Pewaz, Pour-will, Lexan Sapsneker, Gila Woodpieller, Malberte's Flicker, Hoad Gunner, Sparrow Hawk, leooper's Hawk, Western Red-tack. Lunkey Bergard, Mourning, and White winger Dovers, Gambel Quail Snowy Herbr. Mockingbird Bendires Palmer's and Le Contin Thrashers, Black Crested Flysnipper, I Dack-capped Smateatelur, Ullow-headed It, Cactus Wigne, Mu gillin Try's, and Teleolated Warblers, White) unuful Shrite, Western Tanager and the House Finel, Were the birds seen. Murched 15 miles to Fila Indian Agency on the Tela (Kirer. Servai le Contis Herashers wire seen, and heard Singing; but I did not succeed in Shooting any of them or discover their next. Try out on the marquile Antier there were but sew along some dry arroyos, trang Once I shot a hrike pir a dense mæs grute, muslaking it for the Le Contes Thrasher that flew away when I Gered. a Shrisu's nest containing five eggs was Johnd in a musgrite, and secured vulyer velox macrotis Who townide me and stopped to look at me from

behind a bush, when I shot it (166, 1938 fine) and Som my horse, with a wad of buckshot. It ran write a little way to fore it died. I followed it and came whom At lying dead wion the sand. It was corried with verming Mi Skin and Skull were hicker ved. a Mexican Fosh wit (Asturina sitida plagiata) was seen, but could not be closely approached. Grotinier take Wird well i will have in him her Les Brinaini , and were insent. Cities riding about & now, a turned by to the right and now hours to a proud mush summer in Finderich, which his had seen when it instead our This horteon of the route being but did not and it advise bee to go out a cur à my is examine, on account et the extience the at and the condition in our mores ; but now folt. Licing" and mysel with it our veit, and let recented to "take in the march. When I reached the lines, much theest appeared at a distance in water it as only ind, covered with a Racai; out there were much pools, surrounded by cat-tuin and ticker fiftee feet nigh, and de dense as to be invenerable. Spotted Pared Papers (Fringoiais praentarius) une Reliders (Cycelus of Red-uniged Bluen oritis (Hydraus promises) where Stitu notes made The place selm like one of accing Custern marshus. I shot a make as a sour nir i The place, and have sinceled confining for mine but the much ila so deadly from 212th cal-taile and titles und so ireachurously long qui nat il come But make much search on horseback, and, it were on fort in constantly in search Coring my seif and Dut being with to find in; worte. El therrow was Notes sein, which I failed return to identify on shoot. Of small do it wind resembling a Knil as Le sour is I could make aut, in the tell yroubit, in sur and hand, but could, not to received.

Duan lager the west of the Wilson Villander . De u fill out the million of the running when the meddle break, he muselet it is seen I de set many non i.u. All 11.20 in and branding primage with the horas. The work executionic, the wifel 1 and - rateful letter secretaring, and I was to und abzo, ted on walling them, that a gornor my inicia is here account to whole clock to escape they Turous suddening with a share coul mote, and received sorret march until they were out of rome. I a formed the main course of the selice gor secret Aulis and protect that it is as filled a sit small foles and isone, I treme when Sion weet it in treating all the morning. I want to broke, the varie descended in site similar, worker to wichel last and elect the dry arrows to orrightering, The soil treater Sighter and such, and the interest of the Spormo star con 12d with water live place, large Disance nouring to on the sides of the mountain. The in Ken Bring and settled supon breedes and were in I roullid that they were whole to sky. I surged me More formand, feering lest the Thin thin should have rised & rapidly, but when I reside they would it, the water A rad not orse meres tilly I soon become wit to the This, my broth and saddle parkets selled well of water and my horse looking like a dreamed out. Mulita . seemed being cold, and my Earth chattered horribly the · Sien show out again just as I reached the Buchan! faire South of the Ala, and the Indianis Museur When a poor, bedroggied st. Their mud huits 11811 find with children and squares. Some had digen boys, us naked as the day they were born, were will " it a distance from the Village with bows and arrows, and had evidently enjoyed the storm. They is in ... worne, straight little Sellows, with coal-beaux, * Lustions uply thanking and wild as they could be

My Min, and fine, and crowdend dougles be elitheren, Second to will them post a course went. "in is with and joined it I to and now must, and were in. Migle glee after their sever-bath that addice totalis. as mulicus it detracted from my who hadance One iniciais had a large tract of land well Ginera wintin merculte suring and cotto more voles hand having the saw, and interior line, raise face, tone, bolatous, alfaila, muens, etc., and a lear the is a literiate people. The union more long been Jenie - einilie ed. Lee came letrin e the vila little cer muckeyce à lort potator-juid, un el vaccini ivat. nous Adians. du cong en in sent about in tier, vien arms and Ciasan round, Mani, and Peris Shafen, und some lad write good - welling - week, with ? Koney black hair, meatly "tanged" in front. Theodoore nore origher colored peticodes, and the order of dank a int item shoulder, bearing, wir arme, bure a your lady Miss most for our court. 17 most of the lesses which I thad shot curre shopled. lay withing, so I thome will army pare a woney Sureke a Tila Wood pieller and the Med-wriged Blackbeid, which latter dried and skund before recurrent Chong the detelus and fencis in the Indian Settlement) were many Wartens, Sharrows, Torohees, etc., and. At Freat Blue and Growy HErons Wire securith Bilase Some Mount aun of the Annas Came noto muy Tent and watched in skip specimens. Our sholle English well and grand forme of the as sollows! Sarsha" = Ned-Wriged Blackbird (agelaeus phornicus). 4, Hagnewich" - Fila Wood feller (Centures wofy praces) the corres of arboresecut cache with inormous drooping clusterie A sintage wire the resort of families of bracters its zus.

Longet quer Manierin, with the hinds feet wingh. Her cats or other aminus bried mounds and encircle certain wears with the recidions grants. May one in administ protection for the next that the right it with the recidions front them; out That I would in them; out That in noticed that large logards often climic Mount

Marched 14 miles to Phornix, arizonar. Carly with morning, I hunted down the Gila kur a mile or two Dozens of Colton tail Rabbits were the only manuals sem there; but the tracks and signio of the Oslack-Looted Raccoon and Beaver were Sound on the Fila and Salt Rivers. Mumbers of Dong Tharrow, Pin Stockalls, Long-tailed lehots, Red - vented Fhrachers Black- capped Insteatchers, Villow-headed Late, Lucy's Warblers, Macgillwray's W. Western Gellow- Herests, Symmi Illowbirde, Last Vices, Heorese Friches, Foren-lacked Foldguicht Intermediate White-crowned Sharrows, Fazuli Bunting (one), Dwarf leowbirds Red-and-buff-shouldered Blackbirds, Waster. Mindow Farks, Heooded and Bullock's Orioles, Western Kingbords, Clive-sided Flycatchers, Western Wood (Russ, Little Fily caletur, Vermilion Fily caletur, Black- dunied Hammure, and Lambel's Quails were seen in the derise underbrush of arrowwood, willows and grafe-vive. beside the Gila, and in the Cottonwoods along Ata acequias in their gardens a I grain fields Some Navens whom the sand were so tame that I Rould side within a dozen steps of them. Kill deers, Spotted Dandpipers and Form Herrows were Juding along the Gila; and a flock of half a dozen or more Llossy Ibisis Hew dohn Aug obream in wedge. form. Mter shooting a mice I Tambell's Quail botour dupper, Hilst the Gla and Fedrain settlement, and rode around the point of a

mountain, graduaring ascending, the only trees Consisting of Hran-barked acaciai, Frank Cacti, and Mesquites, in which eather a few Black Cerested Flysnapper were breeding. We found these birde in great numbers from the Tila to trouble, in marcinia lowards Texas . They (Vhainopepla outens) were much less abundant when we returned over this the same of the route but were very common in the clevated country setter leaving Phoenix, where none were seen when we piese over the same country Early in the season. After rounding the point of the mountain we could groves of tall acacias, and forests. of Hant Cachi in which were hundred of White-- Wriged, Dover, Matherber & Flickers and in Woodpe Me Love Lilled the air with their mourneful Coping, and were constantly in over wing Strongle Growt to homet, setting in pais or amail told whom the green barried acheics or singly repor grant sohnaras, or on the ground! They were hrobably boarding, but a hasty examination of the shrubbyrn and. aller acaceas proved frutters. The trail next faced between Two mountains the ere on the lest bring a good-redge of the main mores from on our right. Here I was passed by the Thornix and Marcola stage, comanny some well dressed passengers, who eyed my well-worm clothing and somewhat muscellaneous horse-equipage and baggage with contemptions amusement. I here noted that the bolimans, were of somewhat larger onze and more transled Athan Alone seem between mountain spring and this place. I think that one of them would measure forty to fifty feet in beight, but this man be an over-Istimate. One of its branches would exceed the aver

eize of those of owing whom the lills about Dumble the

and and new Krower.

· Her level plain stretching from the foothices was west "west. Tall round-foruted (Cylindro Suntia) Opuntia cactuses were common band Bendire's and Palmer's Thrashers were rather numerous. after a rule that was both warisome and hot I realled the coller. -wood of Salt Rivar, which afforded gratiful shade atthough to reflected hear from the surrounding St. Theas Eardinal, my horse mied in a quie sois. Hoter a long search an Goot I seemed the piction a magnificent adult male, and descovered the rest of the White wriged Dove (Melofelia Leucoitin) and orand in single egg which it contained along with the Lemale parent. Abert's Towhere was also brinding abundantly. a clutch of four eggs was taken from the willow thicked bordering the Tila, in the morning. Road Rummer were Commen. here. Several iter seen on the River- flat and in the gardens of Mexicans, I saw a Spicinge. I Am Bealed Dove Scardafella weap in front of a nuxueano duallina, but did not like to shoot it there, Butorides welselved the spelming the Gran Heron along the Salt River. There were also a few Kelldeer, and Spotted Sandpipers. I found are easy pitched south of town whom the site of a small-pox Cemetery in which many recent interments had been made. A Elitela of abert, Fowhers and White-right Love's eggs were blown and fackled; and the " Skrined of some Tila Wood fickers, the It. Tueas hardmal, White-wruged Dove + Vileolated Warbler, Captain Baldwin and I nunched bread air milk during In latter part of the evening, and then dortered early with thoughts of successful collecting on the diomon, to the fully realized.

Marched 14 miles, to Desert Station H. J. A wounded man delayed my start in the morning. A Scaled For (Scardafilla inca) was shot on the edge of the acception beside the road in the town of Phoenix. While I was wathing it at the Column lassed by I then concluded to visit the suburbe of Phornix on the uses and alient the troops to pass some time. The cottonwoods were filled with singing bird. Froves of mesquite were Silled with song and flitting birds. Oh other Sealed Dorr was taken, and in an orchard-like field of mesquite, where the ground was corred in the war to grass, I found the Fround Dorre (lehamapelia passessia), and seemed three specimens, The note is a low "coo". They live in the branches occasionally descending to the ground, but not habitually as the Sealed Dorred do. Levaral newly built nests of yellow grass slews and fine words were placed in worze the branches of mexquite; but none contained eggs, These mesquite "orchards" were filled with birds; byt, as my time was short, I shot no more a price. Veturing to the main road I sound dozens at the long-tailed Scaled Dore in it and along the adequase boldering it. Some sat in Cottonwoods and uttered a double cooning note o' dologiel vound. I shot four more of them, and hunted the collowood hedges for their vests and thou of the hundreds of Red-Urngid Blackbonds, whose notes or someded on every hand but found only nests of aborts Louise and took ceveral lasts of their 1998. I might easily have taken more specimens of Stated Dovas, Mad I not already an many as Doorld skin during the evening. Neither this species nor the Frond Dove word Lound elewhere on the trip. The White-wings and mourning Doves were also very abundant. Thornix is a city of Dover, all of the aryona

Species, of generalifiers genera board there in abundance The large Band-tailed Orgion is the only own out of the Lamily Lound in ariona, and it is a brid of the timbered mountain regions. On a fined near town was nailed in enomous Tila Mouster (Haloderma suspectum When out whom the desert once more, amid the Caetus, soluaras Z, greasewood and, we quit a pair of Le Coule's Thrashers (Harporlynchus redurins lecontei) were shot, and the remaining Mun Species of anjona Thraslers were observed Valuers was the most abundant. Devral familie. A Young Malherbr's Filieters (Colaptes chrysoides) were seen an wrig, and a spramen recured. A Fort Juma Dermophile (Spermophilus tereticandus) was seen in the top of a mesquite. I crept to the bottom of the tree and the thing was so paralysed with lerror- wat I leavely caught it in my hand, and Carried it pully to Viride, where it finally died and was preserved. It drank eagerly celthough unhabiting a 32 from when water is selflow Known! It at come Jugo quite brans with avidity and was an agreeaich lit. The usual desert brids and annual diere och Fraids were much more plentiful than when 1:2 passed over the ground before.

Marched 22 miles To Hall's Ranch on New River, Q.J.
When he started out from camp, I followed a with americant
arroyo with dry sandy bed, bordered with persuinant
shrubberry, in which were found Mocking tristo
Red ruted Grailers, Black Crested Flysnappers, Blackeafful Suatcatcherd, Yellow-beaded Site, Pileolated Warblers,
Beack Throated Sparrows, Canon Lowhus, Abert's Jourhand
Sant Burtings, Swarf Cowbirds, Mourning Sores,
Dithite winged & over, and Lambels Quall.

The last minuel in very abundant in The region, toundreas of Large clocks iven sine. The Dosert Hare and Northern Gockass Face some abun-- dant, and mangavere shot by the escenant. The China Shemophiles were exceedingly abundant; but I tok no name to whoo's any. Hearis's Cripmut was seen in the border of the footbills of about Hall's gander an new River, The Sternishteles were found to within a mile of Hall's oranche. Many Road - pursuers were seen, out no mesta. I secured three specimens of young Macherine rucker and san-surval Camillies, Valiner's finashers were plentique. I skirined two males in worn plumes : also a leanon Foronce, Athite-wriged DorE, and a Black-capied Enaterither taken mar Hall's rande with its newly-fruished nest, The most abundant Caeti wereth Sodnina Kereus gigantens) and the White Opuntia (Ceylindropuntia) Begilorii), in which latter I took a set of 3 eggs of Harro Augustines falmeri). In your Sperinophiles were most plenti-- Jul in the wide belt of Frealcuoted Felwern Direct World and New Paren. Cactus Wirens, Shrikes Western Fack Finisher, Porewer's Sparroux, Karens, Ash-throated and Say: Flycieter, Black-Chrimed Himmungbrods, Texan Nighthanks, Fexan Subsuckers The Wood perkers, Sharrow Hawks, Red-tails, and White wriged Loves were seen ut various places. The great abundance of the Mourning For was remarked. On the bank of New Power were the grantiful Tomsiana Fanagers, Virmilian Hly catchers, Rock Mosses House Amélies, Doran- backed Goldfingher, Black Cowers White wounded I over and Killder. horken Brigards were seen throng now; the marcin New Ver was the first stream seen ance we existed Sact River. A was much lower than before, Full of letter Johns. Mr. Lang gave me a file Monster that be killed on it day, march. I presented it to Buzzar the Veterinan Surgeon

Marched 13 miles to Sivilling & ranch, on the Aqua acult in com which are received as your 38 of this issued Ana, D. J. Sleft the trail and explored om a piearrow Carron pear von Agria Apria, a found New Mir, after which I rade a cross country, to the mest of 1th Xt. Fire Cardinal Cardinal's Fire internesional the Agua Fina above the mouth of Now River, its built close to the roadside man Fillett (Su desery, on 1.38) & tributary. Black Pewers were abushdant, and I and took the next, 3 eggs and & parent; found a next containing four young. It was The march, although short for the troops was a Vouilt in the clay bank beneath a letter of hand and hist are for Daisy " land one as we follow? Simistone. I thought I paw a Bank Sevallow, no brail and made many detours. The soil too leas Mont later par perhaps the same bird relich Littur rough and rocky or light and asky, while Morried to be Stelgidoptery serripennie. Verindian the orgion water was hill, broken by duch naveres. Alycatchers, Black-Chimned, and Costas Humming in in Leonta's Hummingbird was ving abundant; but I could Were abundant on the stream. Hambels Quail's ness ragge see. not dand its nest Orter abbreviatus. - At length I vode into a growe of Ini-taired Spermo price (Spermo price grammusus) schlag good-erzied coltonwoods, on new River, and Goon after sutering it, heard the whistle of a Hawk, which Thermophilus terriscandus. I sound a dead Skunk Toon earn stommin houards me in feel in. [Mephitish mephitica], and Saw a looyote, and byth species in Harls found in him locality besides to the ground, and after a chase captured and The Southern Vocket Jopher and Wood Rat. He Apremen of the angular. Inthe lailed tocket- Mouse Skilled it. Walking up the rank of the obeau, i scanned every tree closely in quest whits west Lived in the fork of a large Bottomood line and of the deciduous joints & Depunti Coglinaropuntity The Semale parent, Standing whom it. The gare a Orgelovii) were often seen which wer, Changed to the loud whistle and came towards me. A load of time account of this singular lettle least Mr. Fang, Erippled her and she dropped bading avounded outo a person of close observation and accuracy of stancacat The meanest collowwoods where I destateled besays that these mammals are abundant in the sunning with an other charge of the haid been feeding on frogrand ligards. district west of the Agnatina, and that they dwell in caves and often select a prospector's shaft for a In stran was brantiful in this place, and I would dwelling, never failing to ourround it with a barrier not resist following and chyorging its handsom scenery, of the caches gonet of considerable theight over ing the more to be appreciated afters our long rich across This animal casily leaps, but its enemies cannot the corched desert region of aprizone and New Menterio Gallow. The bright and extent of their leaps is ornarizable Soon I was again valuarded by discovering a sitting John speening was killed with a stick in the weeking White-wrigid Dove whon her eggs on a mest built bed of new River by my Hospital Steward. upon the obligie trunk of a willow. I shot the sitting farent, which provis to be a rurale, and Jourd in some munters. Black-capped for faction.

were quite numerous. Tellow-headed Lits boetus and Work Frus, Pileolated and Summer The Macallivays and Least Vinos, Mhite munition Shinkes, Violet-green, and Rough-uniged Swallows, Mestern Janagers, House Finiclas, / For :- backed Gold molica, Mestern Colimbina Sparrow, Brewer's, Plack-Mirroated, and Song Sparrows, Leanon Towhees, Fren-lailed Fowhees, West's Towhees, Saint Lucas Landensis, Dwarf Cowbirds, Heooded and Bullocks Quoles Ravens, Western and Cassins King birds, ast Throatel Hlycalther, Says, and Black Pewers, Vernulian Lycalchur, Black-Ohnined and Kosta's Heumminghids, Jexan Nighthand and Streweller, Tila Wood cekers, Malherter Theckers! Road-numera, Starrow Hawks, Red-tail and Bone tailed Hawks, Juskey Buzzards, Mourning, and While wright Dove 2. Hambel's, Lucils, Mockingbonds, Horas Blue Herous, balance of the afternoon and the evening in blowing "
logge, and offining my soognation from merriami means. some half dozen brids, most of them (parents of set of

Marched Re miles to Bumble Bee, Argona.
The Canon of the Agua this extending sonthward schuld some after pattless places in sell arisona. I followed it sown about two suites. The other her her grite large, now flowing over an even lid of glittering pand for a mile over- similly dividing to some lower down, enclosing his to look a grove of tall colomoods, francest with a sowth of smaller willows and foreged with a sowth of smaller willows and foreged with a rown wood and vives. The banks are socky Rovered with Sohnaras, Echnicacti and openhar. Beautiful flowers from brueath the collonwoods, which have done the handsomest groves the form of how yet some in any one of the lasty morning.

I visited the Sylvan dell and was unable the tear mysil away from its attractions until the surrying Mas Lar apint, nor was the time rdly spent I found a new Mirus! (Hyloerella ustulata) which was new to me and has only twice been delected within This devictors and secured a specimien. I mile below Switzmas' the Atran breone's a branking calaract, rushing over a rocky sanon and disporting with an abandon almost home in angona waters. Here, in a branch of the stran purling over a bed of large pebbles ; shaden by rerelows that nicet overhead were my Tarour Livistice hopping over the Stones with the pase of Seuri , close beside the falls of It main storau. A gorseous Cardinal Frostrak was seen mean by, and its next discovered after a long rearch and its partner shot to death and, chrick off along with they prest and Three eggs. The male Was too play to Vistaken A Simale Bone-tailed Hawk (Butes abborratus) was shot as she flew screaming at me, and the mest was soon Adund in a cottonwood near by The parint blew away when I got close we to the true and shouted and allow away. although peen Doaning about for some line it did not relum although defent cerral hours in the orinite, did not outurn. I climed with vost exertion to the nest which contained two eggs, which together with the nest are described on M. 38 to 41.
These eggs are not absolutely free from euspicion of bruil those of Urubitinga anotheracina, as the parent peur to lears the next was not shot; but it Cestanly was a black hawk having a white bounder Vail. The lage are much larger and differently market and Estores from that taken on new hour

Yeshodan. In find whot was certainly the Butter.

White-winged Dover were numerous in this place. They make a blapping and rushing morse in flight. The notes are "Cuek- oo, cuek oo " (four notes, or two 2-syllaire notes , gran with force and mournful cadence.) Foud of drinking biside streams, the curred wing-base and white the of tail are conspicuous in Alight. leosta's Bunningbirds (Calypte Costar) were exceedingly abundant in the creek bottoms where grow the desert willows, now in Slower and preferred by them to any afters, dozens imight be seen ast once, The malifighting as to disappear from new, They plas garguette. mesquite, now in flower upon the hellsides. I searched for their nest without onceess, allliough they were Certainly breeding, as endicated by the battles of the males and the progracious conducted the females Herral of which byszed angrily about my face, and one attacted a flying , victorian Killdein, and drove the astonistied Plover to the ground and silenced its voulerous cries, which seemed to have excited berg in at the brogin Chainopepla nitens. - Framilies of your are alkeany won wing with their favouts Oroge the agua frice. Hotragalmins praltria, - a your booker Solahuch Shot at Swilling, had a few Dolack Leathers in its make Below the falls mean Swellings the canon be comes narrower, and wellows succeed the collowoods pin the main, and there small birds were very abundant Mellow- Greated Cats and Western Gellow- Wavout-Tare characteristic species there. The latter were surging exquesitely, some mounting to the very summit aftheticllows Fishes, and Frogs were about in the agua tha after leaven it, Valuer's Thrasher was loaced all the way to Black Leavion, and breeds within Sylet of Bumble Bee, as do the Cactus Worns. (Digelow's White Cather ("Chuntie Cylindropuntia | Begelovin) grows

clear through Black Canon. A such of Carpodacus front aire (House How) was built in oried them. Hills made of a fine bright god flowers plant; and our acides bound of Faire Months were also found by Faire Months to the top of the Carron. In Black Canon the large Rock Months were seen bracks of the Mountain from Visles Concolor), and their plainture startly or were brand at night to our camp.

Oris were brand at night to our camp.

I have been beside the stage was sitting whom her must close beside the stage was sitting whom her must close beside the stage was sitting whom her must close beside the stage was taken.

I have the wife any hand. The eggo and porent wishe taken.

I have wife any hand. The eggo and porent wishe taken.

I have worked acreeded in taken her aff of the canon was a present with top of the Canon younders were found present wood of little bits of young one up a menty proportionary meaning broos of little bits of young one up a menty proportionary meaning broos of little bits of young one up a menty proportionary meaning broos of little bits of young one up a menty proportionary meaning broos of little bits of young one up a menty proportionary meaning the cation.

Marched 16 miles, to antelope Station, a. J. Along the dry ber of the creek that Slow, through Black leavon were a muliber of Palmerte Thrashers han seen for the last time. Red-vented Flirasteers were also seen there. White-winged Doves were also lgst seen before we were out of sight of the Frant Casti, when a sinding the mountainis; and a young Malherbi's Hilicker was shot in the last sohwaras that was bud in the vicinities. a couple of vests of the Mockinbert were found, and one of the Frank Cactus Wren Cleampylordynchus brunnecapillus) bisfore we lest the valley; the latter containing five fresh eggs. No Fila Woodfiellers were seen before or after leaving the Black leanon. Before we had seemded far we reached the line of sak Shriftery + down some scattered cedars. Smillang ly formed the Woodhouse Jay and the next of this girst pair seen, containing quer logg, in an out thicket

A Lebyote, some Mule Deer, Harris o Colupmunk, Rocky Mountain Frie Failed Spermoppiles, Wood Rat Desert Han, Northern Jackals Han & Southern Coellest Holiver were the manmalo noted. The left the Sohnaras (Gerena gegantens) behind when we begain the assent of the mountain; as noted before Behot a Malherbis Filieker of the yearni the last of them and found the next of the Cactus When in the same locality. I traced Palmer's Throsher so far and no farther, but Campyforhypolus Commicapilles was found as far as the summit, before descending to antelope. Malberbe's Flicker turned up again at Itig long bruk, when there are no Somearas or other asbores cent cactuses. No Lila Woodpeckers were seen to -day, or subsequently. A nest of Senardura carolina was laken whomas shelf of traf vock in a cliff-the first dover saw in such a situation.

Endry of Woodhouses Jay.

Marched 26 miles to Hance's Ranche, on the Cignega. After riding a few miles we came to the gram cottonwoods and other trees of Big Buy breek, where I lest Daising and Jollows of the stream about a mile. It is a brantiful mountain brook, bordered by Collowoods, willows, Walnut, ash and grafe-vines, with a Lange Yelis of the simple single of pound of the year with their parents, the last sun on the lange. There were a minuter of Killders along the stream in a meadowy forthoir, and Rough-wriged Swallows were building in the banks. I took eggs of the Least Vireo

Mourning Love and a set of 3 eggs of Hasporhyades Eristatis which was built in an ofen estuation Suspended in a grape-vine. all of these eggs were broken later in the day together with other more valuable ones. A pair of Saint Lucas Cardinals were found beside the Creek, and both were seemeas , and also their nest containing one egg, which, fortu--match was not broken when the rest were distroyed Lewis's Modheckers were disporting in the cottonwoods and Lucy's Warblers were singing their lively rong. The Live - tailed Squirel (Spermophilus grammurus as abundant . One ran up the bank towards me and stopped when it paw me, haralyzed with fear. My Horse had ran of and light me when reached Ahr road and I had some trouble injuding The mest of a Chafarral level (Keverceyse Californianus) was found in an isolated serub oak Aneket on a plopping hillside. It contained When my horse rand away. There again found among the cottonwoods of the Agna Firsta, on the bank of which I shot a Koad-runner and had an execting Chace before I caught it. Taking a wrong fork of the road, I again come to the agua Hia, and met some pleasant people at a vanche, where I rested and tatked for half an hour, and then pursued my way Un other hust of Harporluyachus crussalis Sval Noten in a seriet dak, but like the first set they Were all afterwards broken whom my man van ava I "took beross" a wide grassing slope to the also lerrell at a narrow canon, which I had to follow for some distance, before I could get my hore done Muto the bid of the stream. In the only thing least two eggs in a hollow reooped out on the base ground,

of the Mourning Dore (Jenaedina Carolineusis from In parent fluttered when my horse was exactly over it, giving both Daisy" and myself a start. The banks of ash Creek WEre at first a langle Ilenty of Rock Squirils" Speries philus gramminus) and, Tila Chipminks (Jamias asiaticis dorsalis). The... a fine grove of collowoods, was orached, and in one snormous trie was the huge nest of the Mesien Ind-tail (Butio borealis calumis). I had a hand chuif forit, but grached the nest and secured The live fresh egge, which were larger and more hands omely blotteted than any others that I have seen; but then Were crushed before I wrote any description and took any measurements, Chrother next was Doon found in another large collonwood, the Marent pat upon it. I shot her after dismounting and when I did so stanfeded a drove of horses Withind some willows close-by, and my "Daisy" went with them. It was very hot and I was faligued from much walking, but was sleliged to keep in Fight of my kniant more, who kicked up her heels løke a Kitten, afer her 900-mile trif andoutran all of the wild horses. After two or three hours I hard walking and much owning I at last Conalled them in a narrow canon from my man uf the the end and then captured her, and found toul a half dozen of the eggs which I had taken whole and durinal valuable brids ruined by the trollen lgge in the poekets of my laddle, in which of Rad Carried Egg safely through the Enlise trif. The nest was again grinted and a couple of fill-grown young Ked-tails taken, one of what Alterned and preserved of did not reach early until dark, much disquisted with "Saisy" "performace that belayed we so lot and smashed my but

Mule Deer Common Struk, Black gooded Reverence Little of hoteless armonae et cailotes texia unes, Jong-card Bat, Harris's Chipmunk, Wood Rat and Southern Poelet Jopher, and Coyote

Marched 11 miles & Thort Verde, Orisona. I arose early, breakfasted hastily, and then gallofed Daise;" to the head of sopper leation, mar which Julake I saw the only Plack - chunned Francow (Spesella atrogularis) seen on the trip. Black-headed Frostraks were abundant, as they were in the serub rak districts of yesterday's march from Unterope. Fead-colored Fits, leostas Hummyburds and Shurred Fouties were seen the two last days; and it is to be remarked that the hast was only Diemon the two first and last days of this trif The read - cowered Tets user out found on the first day and last two days of the trip. It breeds on big Dug Greek; for I saw a very noisy family of your once bring ged by their parent yesterias. I did not load my cartinages for to day in shooting as I was an pois to get in to the Post as over as (possible and see my family after two months absures for I only stopped long enough in the Canon to pluck a big boagnet of wild flowers for Mrs. nicarus -Andran junes, gellow levelumbines, fall purple locusts and large peac - and galloped into the Post vegors Mine o'clock on my white mare "Daisy" who carried am 9/2 miles to Dening and boes with never a limb a sore back; but we were both glad to get in The Post ambulance had been sent out for Miss.

Wyres whom I found at our house on my

Arrivai, and Saftain Baldion soon souled

ix, with Field. Sweth [stilled at battal of Jantiago, Couba, 1898.]

My collections were sound to be in executed condition. Not even un lag was broken on thusuter Who and nothing was mussing. The collections consisted of 1 Box Fostorse 29 Mammals, 2 Hila Monsters Horned Toads 1 Land. All of the above were dry prefarations, there being is weather, nor means of transportation for alcoholies. A report whom the Manimals and Birds was sent to At Surgion General, U.S. army through the Mudical Director of the Department of Anzona, and Schosited in the library of the Clony Medical Museum.

All official communications to this Office should be addressed "To the Surgeon General. U. S. Army, Washington, D. C." WAR DEPARTMENT,

SURGEON GENERAL'S OFFICE,

Washington, D. C., July 16th

Assistant Gurgeon E.A. Mearms. Ugnited States Minney. For Verde. R. T.

The Surgeon General directs needo inform, your of the receiful, if your fore Cimienary report upon, a fart, of the verte brate, animals observed by you while in the field from Mount to AGay 1885. This resport has been referred to the Our ator of the Krany Medical 116 useum from whom you will receive further ucknowledgement and advice.

Very Roopertfully. Your Obidient Gewant. Dujamin & Dope Assisfant Gurgeow W. J. Army,

Hemy Medical Museum of Library, S. H. Office, 509 to 515 TENTH STREET, N. W.,

Washington D. C., July 17 th, 1885

Dr. Edgar a. Mearns Assistant Durgeons Uf. army.

Dear Div.

Your comminication of June 29, 1885, transmitting to the Surgeon General a preliminary report on the zoology of parts of Arigonas and New Mexico, has been forwarded to this Division. I have examined it with interest and pleasure, and have no doubt the complete report will be a valuable addition to our information with regard to the natural history of these localities.

In ote that you state that the collections one intended to be presented to the american Museum of Natural History. In view of the facts that we are endeavoring to make in this Museum a complete collection of specimene in comparative anatomy to

illustrate the development, and morphology of man, and of the fact that all specimens of comparative and of the fact that all specimens of comparative and of the fact that all specimens be used as a means of exchange to obtain specimens bearing more directly on its special purposes, it is hoped that med ical: officers of the army in making collections will give this Museum the first choice of specimens which they may collect.

Which shall illustrate, not merely the exeleton, but also. The development and evolution of various organs, and soft parts of the animal body, and, for this purpose, aperimens preserved in alerhol are essentials. As an indication of what is wanted, I en iose herewith as memorandum of some things which are executly desired, and which I hope you may in part, at least, find, it possible to obtain for us.

Hoping to hear from you on this subject, I remain,

> Jomes very emocrely John SNS ill viry S. Durgeon Uf Olmy Comator Amy Medical Mercenne.

٠	Felis concolor	Head, in spirit, or any of the vierces. Skeleton of
	Taxidea americana	young individual. Adult aksleton; also skeleton of young preserved
		in spirit - Viscero.
	Castor fiber	Skeletono of young and adult; also viscera, brain
	4	eta.
9	Antilocapia omericana	D'Keleton of young in spirit. Head containing brain, in spirit.
	Polyborus	Entire, in spirit.
	Dpeakyto	Entire.
,	Circus hudsonicus	Entire
	Glaucidium	Entire
	Puter borealis	Entire.
4	agrilla	or my other Raptorial species, Entire.

Those preserved in alcohol should be conefully packed, to prevent breakage. The alcohol should not be of less than 70 % strength.

Notes on a Frin from fort Verde, Arizona, to Flagstaff, Arizona, made between June 18th and 22 nd, 1886.

This trip was made for the purpose of weeting my mother, who was coming from the East, I and conveying free to Fort Varde.

The Chief Leartermaster sent me an ambulance and excellent four-mule team from Whipple Barracks, and, as the boam buched Verde early on the morning of June 18th, I concluded to more out as far as Bearer ocal station, now deserted but somethy a station on the Star Route stage line from Trescott, Arizona to Danta fe, New Mexico, I that evening.

Mr. Danill Robinson politicly volunteered to accompany me on the trip for the pleasure of the drive. We found blente for water in Occaver head breek a little way below the point at which was wad crosses it, but the stream had sand above. We encamped at dark beside the well at the old Station, and after baking some bread in the Dutch were and cooking a med, retired. Mockingbrids, what I formed Dula were heard in the locking; and one or two Poor-Wills.

majuritus) were seen sunning about our crup toking an inventory of our effects. I can van boted after them with Day shotgun, from which my thoughtful companion had with commedable fredence removed both the cartridges, and was therefore, unable to shoot the shunks although I snapped both hammers. We broke camp at sunrise, after fream acting on a young fack Rabbit which I shot through the hind with my fort rifle. These Kabbits are excellent cating motivitivelanding the general ofinion that they are filled with animal parasites and olivion unfit for food.

The ascended a step hill about a mile in length, and then began a gradual ascent through a fine growth of red cedars, which were studded with clumps of the parasition mistletoe and inter-= spersed with mescal of closs, now in bloom and some bear-grass and Spanish bayonet. Heares of Mr Species (2.2. texiamis et sylvaticus anzonae) were exceedingly abundant. etter siding about six miles, we walked a short distance to the edge of a dief earion, which our road headed at Kattlee Jake Janks. The view of this cation is fine; and our posi= tion commanded that of the entrance to the Red Rock Scountry in the direction of Oak Preck. Damber's Zuails were abundant, and hundreds of young ones were seen with their parents. Often labout 25-young quails would be found accordingained by several females, and the Each brids also fre-= quently accompanied them. This strengthens the be no that I have always entertained, viz: that it is quite Common for several Sambel Quails to neatle together, as the number of eggs (occasion= = ally marly thirty and different color phases exhibited in the same chitch illustrates.

The orily birds of special interest were mumbers of White-throated Swists, which were cridently to residing in the adjacent cliffs of the adjacent canon, and one fine Soud tailed Heaven, which slew within a few feet of me when

Town Rattlesnake Lanks, where the thags af road divinges from the old Star Poute, we ascended rapidly over a rolling country, covered with grass, with hatches of cerub-rak land nuseal. The

The red cedare are lest wething and are spanningly replaced by the rough-barked Junifer. In the Canons Velow Kattlesnake Sanks a Couple of fines were feist noted, and some finon-finels were also seen. Mescal was found nearly wh to the pine triuber-line on the mountain, which begins about Dix miles above Kattlesnake Tanka. In ockingords and White-Miroated Scrifts were left behind at Onice Danks, now dry, where the price forest begins. Ut first the pines are rather small and increased in Isize as we gradually ascended the mountain to They stall. The rough-barked funifer penetrales the fine belt a few miles. Decidwous oaks begin with the fine timber, but are not very abundant any where nor of as large eize as they are in the part of the Mogollon Mts. between forts. Verde and Apache. The "Carfentero" Woodpecker of the Mexicans and Steller's Long-crested Jays appeared with the Sirst pines. After siding five miles from Pine Sanks, we

Rame upon an Sen meadow, a couple of miles in extent, through which a small stream winds. These open spaces, richly carpited with grass, are known as "parks". This one is owned by mer. John Woods! If sine herd of cattle and horses was grazing upon lit. The stream flows through a deep ravine from this meadow; land a would to explore its woody defitie, where bids would doubtless have begu abundant.

We next found water and a capin at a flace like that just discribed. This was Munds's nauch, where we camped for the night beneath some enormous pines. I took a walk of about four, piles in search of autelope, which Mir. Munds had told me forequently came to the edge of the park. I assed close to an autelope Mat was Eging alown

and had the mortification of having a Dr. Carrier, who lives at the randy shoot it close behind me. The Doctor had hunted all day and seem a number of Deler and antelope during the day. The Den etay on the ridges; but the autetope come down to the grassy mesas and harks, or live in the open fine woods. The Antelope in arizona habitually whatet the high wooded mountains, where they are not found elsewhere than he is in iture out.

The a ravine near Munns of flee, a quantities of serior for full flower, and fragrant of shot an aberts Prince Spuired then with my fife. I could have obtained some rare brids had a carried the Shotgun included rifle. Robins, Long-Eusted Jays Western Lamoure, Park Finches, Mountain Chickadees and Pallornian Wood feekers were abundant and doubtess breeding there. Two Crows were seen, which were afterwards sound in the same dry fine-tree when we returned two days (ater. One or two Small lesipments were seen which I could not identify, but were cetter Jamua's asisticies doubties

or J. al. quadrivittatus (= Entamais einereneollis allen).

o returned to camp Latiqued; but, after restria
a while, explored the carrow and stream coming)
through the hark from a carrow above it having
its pouroce high who the hills. Both here and a t-v
Noods's, we found numbers of Brewer's Blackbirds
having young whom the wing, bonce were barely able
to fly, and had down trests still adhering to the tipe
of the feathers. The young in the suist plumage me
bolored like their mothers. I examined a dead
one which I sound, and intended to shoot a
premien in the first plumage for preservation
but neglicited to do so. I think they moually, build
their mistoris pine-trees. The only next I saw, was

placed in a aspen-tree, si, feet above the ground.
This composed of hime twigs, stems of plants and lining of rootlets). It contained Sound (4) eggs which contained small embryos. The suite of eggs was preserved, but the mest was accidentally left telimid at Hagstaf.

large beds of iris or flow-de-luce. In the little canon the rough which the stream lows were shed were spruce trees seen on the trip. I ested were ested were lestooned with massing usnea moss. The Mild rose, iris, honeighnealle and white clover were

growing rentifully. I I shot a Long-crested yay in a pine true. It's plumage was very much with and soiled with gum, its stroat being nearly bace. Many ongs well Seen in the finte-tops land a beautiful Red-faced Warbler was slusped from its grest whom the side El the bank, close to the Strink of a large sprice. A alighted in the lowest branches, of a small sprice, uttering a Sharp, hard whip. The bird was so Jearless and the place I was in so hard to get out of that of Seared I could not secure the specimen without muti= Atilatina it. & Lived a Charge of 100, my Lives & Shot, aining six inches to one side of the bird and did not hit it at all. Then it flew a lettle farther off and the same experiment was repeated with no better result. Then it flew to the lower limbs of a distant of ruce and hopped nimbles about ultering its single note until shot. Its red feach, black Cap, gray back and white rump, suggested to my mind a miniature of the Ceropean Tielfrich (Pyrrhula europaean). After securing the old bird, which was a new species to Thy field Experience, of began to pearch for its nest whom the ground. An old nest was discovered, after close search, and I was about to conclude that it

Solvinged to my bird and was not yet completed, when I saw a little opening among the rocks and pince needles, and pince needles, and most, I discovered the nest, as arthrely Roncealed as it was defly constructed and predily located on it were soul (4) eggs which contained small embryos which were easily removed. The Shells were thick and hard.

the stream, in a bush, that was new to me, but escaped before - Rould capture it. Heere I wist sin a tall plant resembling Verotrum viride Isix feet high, which was aftenoughed seen occasionally be = -kevery there and pressing them, or returned to each with a new bird and two frew nexts and eggs. In the living of shot a small wat of a dark auburn color that was also new to me; but it was so badty muliloty that I was also new to me; but it was so badty muliloty that I was unable to preserve the specimen.

June 20th. - The drive to flagstof through the open facts and hine winder was delightful. We arose from a refreshing sieth well covered with buskets diolivithstanding the intensely hot weather about 18 for the Verte Valley, where the maximum truperature if the five days Shent on the maximum arranged 1058 f. in the Shade. Starting early we reached flagstaff between ten and seven belook in the morning. Hongs of undamilar, birds were hierre as we role along of undamilar, birds were hierre as we role along of undamilar, birds were there as we role along of undamilar birds where the georgious violet-green Swallow that contimely sailing about us; and one Cuple Martin flew or head about the top of a large fine. I have been and me fact many other prountain finds, most of and me fact many other prountain finds, most of

which I was unable to identify while bowling swiftly along in our ambulance, buly slopping, odeasionally te have a shot at some Squirel or brid. I shot three Lemale Day's Chipmunks (Januas toteralis). None swere seed until we were within a dozen miles of Flagslaff, where a number Were seen setting whood logg rocks or logs that had been telled for the saw-mill . They with a high-fitched whistle which is ventriloquial and Seems to come from the nearest tree-top when in reality the inimal is at quite a distance and whom the ground. Theif are larger and less ship than Hearriss Cheimunk. A fine Rocky Mountain Line-tailed Thermophile was shot on a log near the road, It was suchling young as were all three Day's Chipmunks, which contained a guantity of Smilk in the manmae, which bore endence of Suckling. Near the Heydraulie Works, in one open Thed near the pump, & shot a little Wessel whose audacious temerity was nothing short ofmarrellous. It came right, up close to me, Juga much difficulty in getting far enough away from it to shoot it without multiplition, which I budgeded Sinally in doing. This was Untoruis auzoneusis Mearns. To Heales of any ofecies were seen ampohere in the Crine timber on the trip. Soon ofter leaving Munds a place, we saw the List Hoepatic Danagers (prianga pepatica). Two pairs were courting and fighting . They chased One another about through the trees and siee or twice settled upon the fround. This species affears to be partial to the oak timber in the pine woods. The fines are of large size and harbored numbers of frigmy and Stender-belled . Vinthatches, Louisiana Tanagers, Desert House Wiens, Juneos, Lark Finiches, Mexican (Bluebirds, Robins, Violet-green

Quallous, lealitomian Woodpeckers, Sharrow Hawks, Plumbrous Vineos, Princhinches, Long-crested Vays, Andulon's Warblers, etc. etc. We pitched an A tent-for mother in a grove of magnificent prices, where (Humbrous Uneos, Jousi = - Jana Danageri, Kobinis, Anizona Bripping Spanows, Arkansiv Kingbirds (and probably lassing alow), Vine Finches, Audubou's Warblers, Hays, Woodpickers, Met-Thatche and many other birds were singing or attering Sticip mual notes. Theard what I Harik was a Brown Briefer int did not see it. I spent most of the afternoon in calling about to: and skinning Somerels Ourple Martins were numerous at Flagstaff. One was seen 15 miles South of Flagslaff, in the inie woods; but Ishot none. I regrette having so short a time to shend at Flagstaff, as I would andoubtedly have found numbered 10 nest: and eggs, besides brids and man male hew to me. Bats large and small were abundant in thelorning mother arrived on the train at ten o clock, It is (3) hours behind time, and went at once to the te it to retire and sleft soundly. June 21st: - We were delayed at Friagrica to have home work done on our ambulance of went shooting for an hour. A pair of Robins had built a nest mi! On small fine, 20 feet high, and were waging war regainst an Aberto Unice Squirrel which I shot in a Grand. May attention was attracted by the crees of the Kobius. The ery of this Squirrel is a squall. Whit = like var. dorsalis. I wounded two, both of which escaped into rocks. Doves were Jairly common. Yuncos, Jays, Bluebirds, La. Tandagers, Lack Finches, Mountain Checkadels, Brewer's Blackbrooks, Robins, leal Wood-= pickers, nuthatches, Audubon o Warblers, Westerniking=

(Tachyeineta Cepida Mearus) Torols and Violet-green Quallows Wen the most abundant birds! Abird resembling Setophaga ruticella was seen in the hime-tops , but was not identified positively. One Hechatic Tanager was shot. We lest Flagstaff at cleven o'clock, a.m., and rode to Thundso panche Twhere we stopped for leuch. Before reaching that place an Untelope was been near the road but trotted over a ridge before I could get at my rible. I started to stalk him on foot, but could not get within too yards although be seroled and zig-Eil at it at all. Violet-green Sieallous wen very abundant. Although a sew breen in the Verde Valley, Mice i true home is undoubtedly in the price forests of higher allitudes. At Woods's ranche, we stopped an hour and watched the sodeoat the corral. Killdeers were sound along the stream in the park, and were the only Water Birds seen on the trip. A small serpent Was Eaptured tiere, We camped for the night at Pince Doubs, which were dry; but us had natir for cooking and drinking in the canteens if the mules were watered at Woods's. We got to our early at Pine Tanks at Dunset. Quine 22nd - A pair of Atepatie Tanagers was Shot at camp before we were ready to leave. One Tanks is on the edge of fine timber, and we were soon descending towards Kattlesnake Tanka; Nabbits , Mocking birds and White-throated Swifts yere over again seen, and after a time the roughbarked similers gave place to red cedars with now and then oak shrubs and bear-grass with various other shrubs and occasional Elumps of lactus (Vlatohuntia) Mammillaria) and abox. Att Kattlesnake Tanks, the surrous batraction

having external gills like the Menobranohus was Sound. They were only about three or four niches Stong, and were the same that of gowind in Janks on the Mogollon, Mts. on the apache road. Mon the rocks beside the tanks were some super b Equical bunches of mammillaria eachuses. Passing down through the gedare we found Have I in great Ibundance and Spermophiles, Lila Chefimunks. Afreru Lezards (Crotaphytus collaris) were abundant, basking upon malapai sveks in the oundrine Dan. Shot two which were preserved in alcohol. Furkey Osuzgards were numerous along the cliffs, as were Wistern Red-tail Fleawiss. Mainopeplas Divere not Seen mutil we reached Weaver Heead. Fire usual valley 101 des were seen thence in to the Post, where we arrived, at two o'clock P. M. We found a wooden for x, filled with the rose-purple blocust flowers and oftiers at vine Tanks, quite fresh when opened at home nine brours later. Lest of Manimals Scen. -Camis latrans . - Recard at all cambs. 1. Hocyon Cinero-argentatus. - Tracks in the carrow near munds's ranche. 29 Einrus aberti. - Found throughout the pine forests. Me shot sheamens at Munders and at Hlagstaff. 3. De permophilus grammunus grammunus. - One was 4 St Damias lateralis. - Says Chipmunk was order Lound in the vicinity of filagotaff, where it was very abundant. Seen by us for the first. time. We captured four specimens, all females Dumas asiaticies dorsalis) - Siveral wen seen Eliver Beaver Hecad and Kathesnaki Sanks. Some Chipmunks Seen, about Flagstaflappand destified. The latter war I and quadrivitation.

or Entamias anerencollis allen 6. Januar esiations quadrivillatus. - One that we saw running who tall fine nearly to the top. O looked to me like this subspecies. 7. Jefus sylvations arizonal - Houndant throughout the belt of cedar Kimber, gradually disappearing Mence Mirrough the sparser rough-varked ju nifers. We paw no Heares in prine timber; but their aie/nobably a Lew in rocky viagu if not nithe 8. Le mi terranus. - Heatitat the Dame as above. 9. Antelocapia anericana. - Only two, one male and one Semale, seen mear Munns's panelie; 10. Lariaeur macrotis montanus. - Lommon on ridges and high ground. Deareir in the 11. Mus conscilus. - A House mas found in Mr. Donannan's hay scales, when he was 12. Putoriis arizonensis Mearus. - The Vittle Weasel Shot at in Stam jum! near flagstaff is the only weasel I ever oaw or heard of his Anzona, aside from Sublished records. It was a female buckling young. The anal gland Contained a very permeating fortid lequid, which I was sinable to get sid a for-, Several days. The opicinien was in excellent fur. 13. Thomomys talpoides umbrinus .- Its mounds ilvere 14. Long-Eared Dat. - Comme woods. 15. Attle i brown Bat. - Common. 16. auburn-havied Bat. - One was shot at Munners It was badly mutilated and not preserved as Tex -= peeted to vale to ottam a perfect of econim, But neglected to do so when Feturning 17. Conepatus mapurito. - no on Beavar Head June 19.

Note. - Mr. "Itile" Munds is an old settler and owns a handsome herd of Stock and a fine range. Hee told are that when he first same into Cerizona, many years ago, he family the stidious making a drive of for Elk (Derous canadenses) in the Schu Hrancisco Mets. Here were plenty of Elk tracks and near Indians. Hee did not see any of either Wit there was abundant cordence that the drive Mas Duccessful. Dr. Brannan of Hlagstaff and wir brother each have a specimen of the Mountain Sheet, Ablanced near Flagstaff. Mr. Co. Corannan sent his prounted ofecimen to the Conterinial Exhib= = ition at New Orleans, and had not or cowed it back Mille I was they, the Dr. sent in spremen East to his mother. I lave never get seen an anzonaskin. Dirds: - The only borrds of interest seen below the Juine belt were a Gone-tabled Heawk (Buter abbrevi= - atus) and many White-Miroated Swifts (Micropus Archanolenous) seen in the Canon velow Rattlesucke Direks, and the latter there nearly to the fine timber at Vini Junks. The following is a conflete list of all the in ide seen and identified in the price tricker between Chin danks and Flagslaga; -1. A gialitis vocifera. - A few on a small stream flouring through a park at Woods's, at an elevation

2. Zenaidura macrowra. - Sparsely scattered firough the pine trinter; most abundant at Flaggial. 3. Haleo sparvernis. - Common in the pine woods, where there is an abundance of sine nextric site.

4. Colaptes cafer. - Several were seen at Flaggetaff

5. Lehordeiles virginiamis henryi. - This Nighthawk was abundant at Heagslaff, where I recognized it instanting by its harsh note, which is quite unclike what & f. acceptationing texensis the only species I had found butherto si anjona. They mucht easily have been not, but and no offerthinty 6. Frochilus alexandri - no other species mas necog = = mized; but I may have seen several obiers, as Hummers were frequently seen darting about 7. Syrannus verticalis. - Common everywhere in the fine woods; the only one shot was this species, But I Minik some of those seen were I vocificans. 8. Dayonis Saya. - Occasional; a few about Flagstaff. 9. Lontopus richardsonii. - Common. 10. Lejanocittà Stelleri macrolopha. - Common Miroughout Othe price tribered Country. One nest found, at thagstaff was just finished, probably forig second Grood. It resembled a Vilne Mary'o (Ce. Cristata and was placed in the lonnost fork of a June 25 to 30 feet high. 11. Leonies carmones simalies. - Dearce. 12. Leonous americanus. - + of few were seen It probably breeds in June-tices. At pali seem at Munnis were in the came tree when we returned I wo Lays kater, and perhaps had a nest near. 13. Deolecophagus Eyanocephalus. - Hound, especially about cattle, Atronghout the rine triuber. The going were on wing, although I found one nest in an aspen-time, from which I look four preasly fresh effet 14 Dhuns Junis. - Common near Flagslaff. 15. Chondestes grammacus strigatils. - Common all through the pine woods. Dinging Sweetly 16. Spella socialis arizonal. - Very comma

17. Juneo emercus dorsalis. - Common. none were shot, but Ithink they were subspecies dorsalis as More Lound in the neighborhood of Baker's Quete a short time after were of dorsalis I have may have been other species ar vacco at thenco present. Prianga hidoviciana - Abundant , Duretty singing. 19. Prianga hepatica. - Not race in the price woods. Seems partial to the deciderous oaks found in the There woods. She male sings a loud, remarkably in our last cam at in Janks, use I secured 20. Progne subis. - One seen near Munn's ranche, Common at Alagstaff. 21. Dachycineta thallassina. - The most characteristic spices in the price. This is Tachycineta lefuda Mearus. 22. Vireo solitarius plumbeus. - Lommon; a suret Linger; borrds ni tall pines. 23. Elndrorea auduboni - Common ni the funi twiber where they breed. 24. Actophaga (?) sp. . - This bird was seen at Hagataff in price, but could not it identified. 25. Cardinalis subrifrons. The female whose next I took at Munus's was the only one seen to be in the price at too great a height to be recognized. 26. Dalpinetes obsoletus. - A few at Fragota, 27. stroglodytes aidon alleni. - Hore some miles before heading filagriaff the fines pines mear. The wad have Nean felled and left upon the ground in preparation for the saw-will. Among the branches of these prostrate grants of the Gordst, the little Heorise Wrenz Troglodytes were Skipping nicerily about They were abundant. A specinien was sigured on our return trip. 28 Sitta Carolinensis aculeata - Kaltur ocorce.

29. Ditta pygmaea. - Rather abundant. 30. Parus gambeli. - apparently rather ocarce, a Dodew were seen at Alagstal + along turrow. 31. Poleoptila caerulea. - Kather un common. 32. Grenila migratoria proningua. - Mather Common in the place, especially at Hagstall, where they jang loud and suret. 33. Dialia mexicana. - Abundant werywhere Mirough the pine woods. Fist of Specimens Collected: Manmals: -1 No. 420. Denirus aberti. Fad. " 421 Demris aberti. Ejiv. " 422 Deiurus aberti: Fad. " 423 Shermophilus grammurus. Fad. " 424 Jamias lateralis, fad. " 425 Jamas lateralis, fad. " 426 Tamias lateralis. Fad. " 427 Jamias lateralis. Fad measure Parismens measures measure Burds:-No. 4903. Leardellinius rubrifrous. Fad. with west and 4eggs. " 4904. Tachycineta Hallassina. - Cepida Mearing. " 4905 Vido solitaries plumbens. Sad. " 4906 Viranga ludoviciana. Ead. " 4907 Cyanocitta stellen macrolofha. Lad. " 4908 Manga hepatica. Fad. " 4909 Fraglodytes aidon alleni, Ead. " 4910 Manga Kepatica. & ad. " 4911 Viranga hepatica. Fad. Keptiles:ane Serpent (at Woods's) preserved in alcohol. 2 Serolophytus Collario. - Colland Lizards preserved in alcohol Plants. - about 20 epicies were preserved. Eggs sit of 4 of Scole copliagus. Eyanocephalus.

88,88,89,98,103,111,114,118,127,129,134,137,140,141,149,150,

154.

98,100,103,118,126,127

Lepus callotis /6, 65, 66, 67, 68, 71, 75, 111, 114, 118,

Lepus texianus 16,46,48,50,50,50,54,60,65,66,67,68,75,77,81,84, 88,88,89,98,103,111,114,118,127,129,134,137,140,144,149,150,

Erethizon dorsatus epixanthus

Castor fiber canadensis /22,/39 (lethr)

Dipodomys phillipsi ordi/6,/22 (file up eachisjounts), 129,

Thomomys talpoides umbrinus 77,88,88,/29,/34,/37,/50,

Sciurus hudsonius fremonti

Sciurus aberti 143,147,149,154.

Sciurus arizonensis

Tamias asiaticus quadrivattatus /43,147,150

Tamias dorsalis 48,50,50,77,/36,143,149,149,

Tamias harrisi 16, 48,49, 52, 53, 54, 118, 127, 129, 134, 137,

Tamias lateralis 146, 149, 154.

Spermophilus grammurus 48, 50, 129, 133, 134, 135, 136, 146, 149, 149, 164.

Spermophilus tereticaudus 16, 52, 54, 62, 73, 75,77, 87,88,92,93,94, 95, 98,100,103,118,126,127,

Cynomys columbianus 16,58,60,79,80,81,93,99,100,

Mus decumanus

Mus musculus /50,

Dicotyles torquatus

Cervus canadensis /5/,

Cariacus leucurus crooki et mexicanus

Cariacus macrotis montanus 48,54,77,88,89,100,134,137,150,

Antilocapra americana 48, 88, 89, 100, 112, 139 (letter), 142, 143, 148, 150,

Ovis montana 63, /51,

Canis familiaris (Indian Dog)

Long-eared Bat /37, /50,

Large Brown Bat

Little Brown Bat /50,

Red Bat, and all other spp. 50, 54, 77, 103, 14-5, 147, 150,

Mammale 1, 138, Moles (all spp.) Felis concolor 16, 133, 139 (letter), Lynx rufus maculatus Lynx canadensis (or other species than the above) Bassaris astuta Canis lupus occidentalis Canis latrans 48, 50, 54, 88, 118, 129, 134, 137, 149, Vulpes velox /6,69,//0,//8, Urocyon cinero-argentatus /49, Gulo luscus Putorius braziliensis frenatus 146, 150, 154 Mephitis mephitica /29,/37, Mephitis interrupta Conepatus mapurito /40, Taxidea americana berlandieri 77,88,89,/39(letter), Lutra canadensis Procyon hernandezii/22,/37, Ursus horibilis Ursus americanus Neotoma mexicana 77, 88,88, 122, 129, 134, 137, Hesperomys leucopis sonoriensis Hesperomys leucopis eremicus Hesperomys leucogaster torridus Arvicola(riparia?) Sigmodon hispidus arizonae Fiber zibethicus Lepus sylvaticus nuttalli

Lepus sylvatius arizonae /6, :3, 46, 48, 50, 54, 60, 88, 9, -95, 100, 1/8, 122, 127, 129, 134, 137, 141, 149, 150,

Million of the state of the sta Fort Verde Prescott ंदि E OHanee's Antalope Bun ble Swilling's Me such as the OHall's OCar - asprire. le me al McDowel Conger. Bua River Salt Phoenix Gila River



